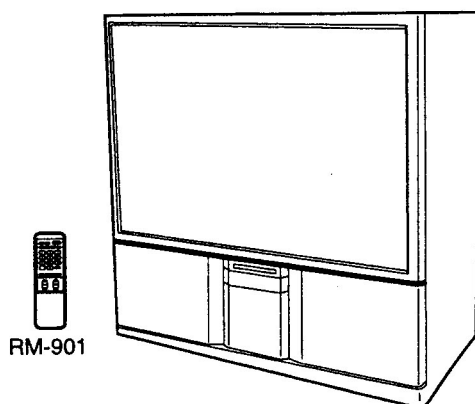


# SERVICE MANUAL

## RG-1 CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-E61MH11	RM-901	Hong Kong	SCC-K62C-A
KP-E61MH11	RM-901	ME	SCC-K61C-A
KP-E61MN11	RM-901	GE	SCC-K63C-A
KP-E61SN11	RM-901	Austrarian	SCC-K64C-A

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
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※ Please file according to model size. .... ■

61

PROJECTION TV  
**SONY®**

## SPECIFICATIONS

### Projection system

3 picture tubes, 3 lenses, horizontal in-line system

### Picture tube

7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquidcooling system

### Projection lenses

High performance, large-diameter hybrid lens F1.0

### Screen size

61 inches

### Television system

B/G, I, D/K, M

### Color system

PAL, PAL 60, SECAM, NTSC<sup>4.43</sup>, NTSC<sup>3.58</sup>

### Channel coverage

See "Channel coverage" at the bottom

### Antenna

75 ohm external antenna terminal

### Audio output (Speaker)

15 W x 2

### Number of terminals

**Video** Input: 4, Output: 1

**Audio** Input: 4, Output: 1

### S1 Video/S Video

Input: 4, Output: 1

Y: 1 Vp-p, 75 ohms, unbalanced, sync negative,

C: 0.286 Vp-p, 75 ohms

### Power requirement

110 - 240 V AC, 50/60 Hz

### Power consumption

175 W

### Dimensions (w/h/d)

1336 x 1519 x 647 mm

### Mass

Approx. 130 kg

### Supplied accessories

Remote commander RM-901 (1)

Size R6 (AA) battery (1)

Design and specifications are subject to change without notice.

## Channel coverage

### M E/ASIA/CATV W EURO

Receiveable channel	Channel display
E-2 to E-12	C02 to C12
E-21 to E-69	C21 to C69
S-01 to S-03	S42 to S44
S-1 to S-41	S01 to S41
<b>Indonesia</b>	
1A	C01
2 to 11	C03 to C12
<b>Morocco</b>	
M-4 to M-7	C70 to C73
M-8 to M-10	C08 to C10
<b>New Zealand</b>	
1	C01
2 to 11	C03 to C12
27 to 62	C27 to C62

### HK/UK

Receiveable channel	Channel display
<b>Hong Kong, United Kingdom</b>	
B-21 to B-68	C21 to C68
<b>Ireland</b>	
A to J	C01 to C09
<b>South Africa</b>	
4 to 13	C04 to C13
21 to 68	C21 to C68

### AUSTRALIA

Receiveable channel	Channel display
<b>Australia</b>	
AS-0 to AS-12	C00 to C12
AS-5A, AS-9A	C13, C14
AS-28 to AS-69	C28 to C69
<b>New Zealand</b>	
1	C00
2 to 3	C01 to C02
4 to 7	C06 to C09
8	C14
9 to 11	C10 to C12

### CHINA/E EURO

Receiveable channel	Channel display
<b>China</b>	
C-1 to C-2	C01 to C02
C-3	C13
C-4	C03
C-5	C04
C-6	C14
C-7 to C-12	C06 to C11
C-13 to C-24	C21 to C32
C-25 to C-47	C38 to C60
C-48 to C-57	C61 to C70
Z-1 to Z-39	S01 to S39
<b>Eastern Europe</b>	
R-1 to R-12	C01 to C12
R-21 to R-60	C21 to C60

### AMERICA/CATV AMERICA

Receiveable channel	Channel display
2 to 79	C02 to C79
A-1	S99
A-2	S98
A-3	S97
A-4	S96
A-5	S95
A-6	S06
A-7	S05
A-8	S01
A to W	S14 to S36
AA to CCC	S37 to S65

### JAPAN

Receiveable channel	Channel display
J-1 to J-62	C01 to C62
C-13 to C-32	C80 to C99

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE  $\Delta$  SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

## SECTION 1 GENERAL

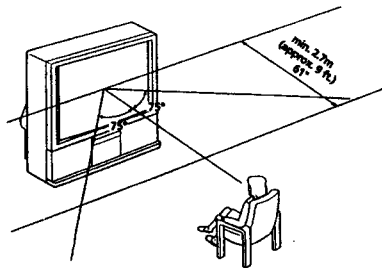
The operation instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

### Getting Started

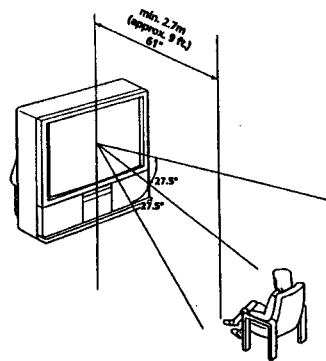
#### Installing the projection TV

For the best picture quality, install the projection TV within the areas shown below.

##### Optimum viewing area (Horizontal)

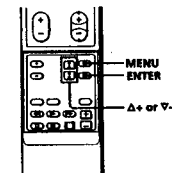


##### Optimum viewing area (Vertical)

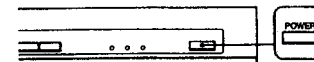


#### Changing the menu language

If you prefer Chinese to English, you can change the menu language. You can use the buttons on both the remote commander and the projection TV.



1 Press POWER on the projection TV.



2 Press MENU.



VIDEO CONTROL  
AUDIO CONTROL  
FEATURES  
PRESET  
LANGUAGE

3 Press Δ+ or ∇- to move the cursor (▸) to LANGUAGE.



VIDEO CONTROL  
AUDIO CONTROL  
FEATURES  
PRESET  
▸LANGUAGE

4 Press ENTER.



LANGUAGE▸  
▸ENGLISH  
CHINESE / 中文

5 Press Δ+ or ∇- to select CHINESE.



LANGUAGE▸  
ENGLISH  
▸CHINESE / 中文

6 Press ENTER.



選定 LANGUAGE  
英文/ENGLISH  
▸中文

7 Press MENU to return to the normal screen.



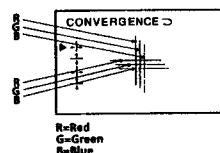
## Adjusting the convergence (CONVERGENCE)

Before you use the projection TV, adjust convergence. The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence. After 20-30 minutes of turning on the power, adjust convergence.

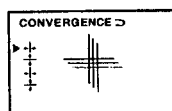
1 Press MENU.

2 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\blacktriangleright$ ) to FEATURES and press ENTER.

3 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\blacktriangleright$ ) to CONVERGENCE and press ENTER. The CONVERGENCE adjustment screen appears.

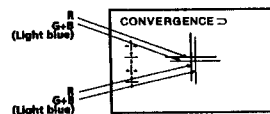


4 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\blacktriangleright$ ) to the symbol showing the line you want to adjust, and press ENTER.



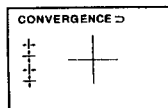
- + : Red vertical line (left/right adjustment)
- + : Red horizontal line (up/down adjustment)
- + : Blue vertical line (left/right adjustment)
- + : Blue horizontal line (up/down adjustment)

5 Press  $\Delta$  + or  $\nabla$  - to move the line until it converges with the center green line, and press ENTER.



To move up/right, press  $\Delta$  +.  
To move down/left, press  $\nabla$  -.

6 Repeat step 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.



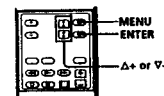
7 Press MENU to return to the normal screen.

## Presetting channels

You can preset TV channels easily by storing all the receivable channels automatically. You can also preset channels manually or skip program positions (page 23). You can preset channels using the buttons on the projection TV as well as those on the remote commander.

### Presetting channels automatically

You can preset up to 100 TV channels in numerical sequence from program position 1.



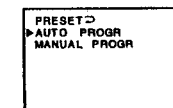
1 Press MENU.



2 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\blacktriangleright$ ) to PRESET.



3 Press ENTER.



4 Press  $\Delta$  + or  $\nabla$  - to select AUTO PROGR.



5 Press ENTER.

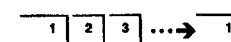


6 Press  $\Delta$  + or  $\nabla$  - to select your area (channel system). For the areas allocated in each channel system, see "Channel allocation" on page 27.



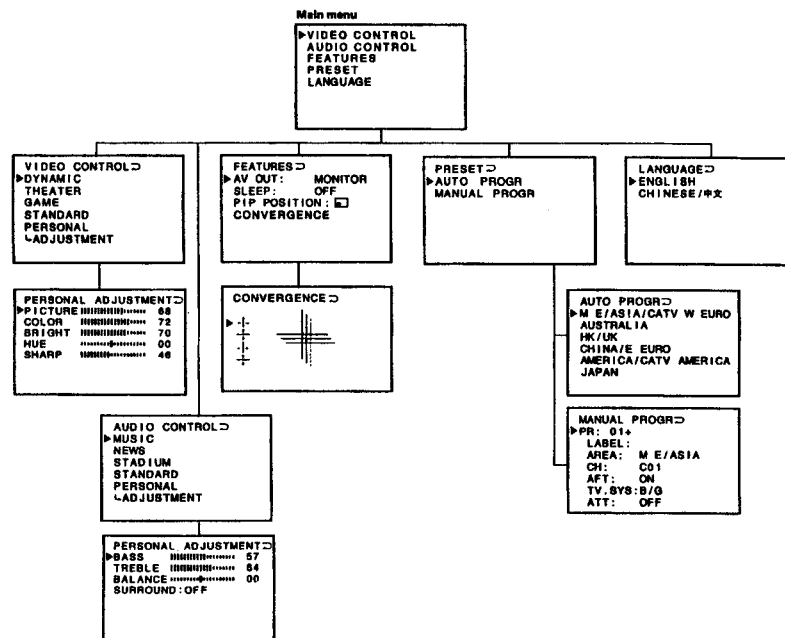
7 Press ENTER.

Presetting starts from program 1.



# Introducing the menu

You can preset channels and set picture quality, sound, and other settings using the on-screen menus. You can use the buttons on both remote commander and the projection TV to operate the menus.



## Getting back to the previous menu

Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\blacktriangleright$ ) to the first line ( $\square$ ) of each menu (except for the main menu), and press ENTER.

## Cancelling the menu screen

Press MENU.

### Note

- If more than 60 seconds elapse after you press a button, the menu screen disappears automatically.

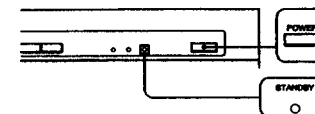
## Operations

# Watching the TV

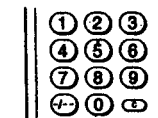
## 1 Select the TV program you want to watch.

Press the number buttons or PROG +/-. The projection TV turns on automatically and the selected program appears.

When the STANDBY indicator on the front of the projection TV is not lit, press POWER on the projection TV, and select the program position.

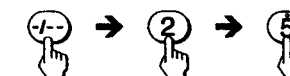


To select a program position directly  
Press the number buttons.



To select a two-digit program position, press "+/-" before the number buttons.

For example, to select program position 25, press "+/-" and then "2" and "5."



## To scan through program positions

Press PROG +/- until the program position you want appears.



## To select a channel directly

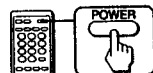
Press C (once for VHF/UHF channels, twice for cable TV channels), then press the number buttons (two-digit number for VHF/UHF channels, three-digit number for cable TV channels). For example, to select the VHF/UHF channel 4, press C, 0 then 4.

## 2 Press VOL +/- to adjust the volume.



## Switching off the projection TV

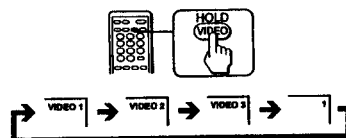
To switch off the projection TV temporarily, press **POWER** on the remote commander.  
The **STANDBY** indicator lights.



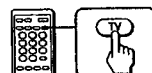
To switch off the projection TV completely, press **POWER** on the TV.

## Watching the video input

Press **VIDEO/HOLD**.

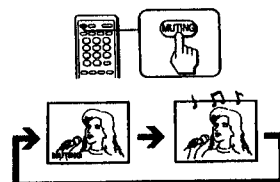


To watch projection TV, press **TV**, the number buttons or **PROGR +/-**.



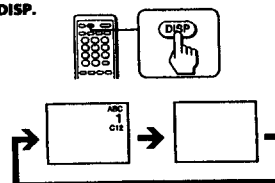
## Muting the sound

Press **MUTING**.



## Displaying on-screen information

Press **DISP**.



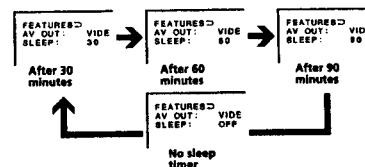
### Note

- When you press **DISP**, the on-screen display shows the picture and sound settings as well, all of which disappear after three seconds.

## Setting the Sleep Timer

You can set the projection TV to turn off automatically after the period of time you set.

- Press **MENU**.
- Press  $\Delta$  or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **FEATURES**, and press **ENTER**.
- Press  $\Delta$  or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **SLEEP**, and press **ENTER**.
- Press  $\Delta$  or  $\nabla$  - until the time (in minutes) you want appears.

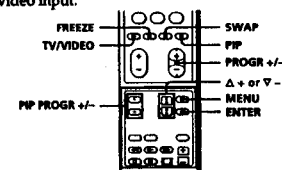


- Press **ENTER**.

To cancel the Sleep Timer, select **OFF**, or turn the projection TV off.

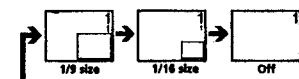
## Using the Picture-in-Picture features

You can display a Picture-in-Picture (PIP) screen (small picture) within the main picture of a TV program or a video input.



## Displaying PIP

Press **PIP**.



## Selecting a TV program or video input in the PIP screen

To select a TV program, press **PIP PROGR +/-** (yellow buttons).

To select a video input, press **TV/VIDEO**

## Swapping pictures between the main and PIP screens

Press **SWAP**.



## Changing the position of the PIP screen

- Press **MENU**.

VIDEO CONTROL  
AUDIO CONTROL  
FEATURES  
PRESET  
LANGUAGE

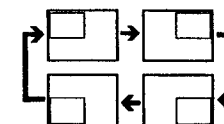
- Press  $\Delta$  or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **FEATURES**, and press **ENTER**.

FEATURES  $\triangleright$   
AV OUT: MONITOR  
SLEEP: OFF  
PIP POSITION:  $\square$   
CONVERGENCE

- Press  $\Delta$  or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **PIP POSITION**, and press **ENTER**.

FEATURES  $\triangleright$   
AV OUT: MONITOR  
SLEEP: OFF  
PIP POSITION:  $\square$   
CONVERGENCE

- Press  $\Delta$  or  $\nabla$  - to select the position you want.  
Pressing  $\Delta$  + changes the position as shown below.  
Pressing  $\nabla$  - changes the position in reverse order.



## Freezing the PIP screen

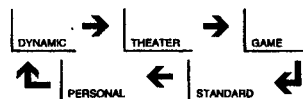
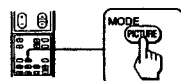
Press **FREEZE**.

To restore the normal picture, press **FREEZE** again.

## Selecting the picture mode

You can select the picture mode using the menu as well as the PICTURE MODE button on the remote commander. Select VIDEO CONTROL from the main menu, then select the desired mode.

Press PICTURE MODE until the mode you want appears on the screen.



Select	To
DYNAMIC	Display more contrast picture
THEATER	Display darker and finely detailed picture suitable for movies
GAME	Display softer picture suitable for the video games
STANDARD	Display normal contrast picture
PERSONAL	Display the picture that is adjusted using ADJUSTMENT in the VIDEO CONTROL menu

### Viewing a video game screen

Press PICTURE MODE until the GAME mode appears on the screen.  
The screen changes to the optimum mode for video games with soft picture.

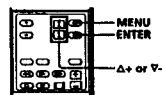
If the fixed (non-moving) pattern is on the screen for long periods of time  
Keep the picture functions at low settings (see "Adjusting the picture setting" on page 14). If not, the image may be permanently imprinted on the screen.

#### Note

- To prevent imprints on the screen, the picture shifts horizontally and vertically about 5 mm every 2 hours. This is not a malfunction of the TV.

### Adjusting the picture setting (ADJUSTMENT)

You can adjust the picture quality to suit your taste with the ADJUSTMENT option. The adjusted settings are stored in the PERSONAL option.



1 Press MENU.

VIDEO CONTROL  
AUDIO CONTROL  
FEATURES  
PRESET  
LANGUAGE

2 Press Δ + or ∇ - to move the cursor (▷) to VIDEO CONTROL, and press ENTER.

VIDEO CONTROL▷  
DYNAMIC  
THEATER  
GAME  
STANDARD  
PERSONAL  
ADJUSTMENT

3 Press Δ + or ∇ - to move the cursor (▷) to ADJUSTMENT, and press ENTER.

PERSONAL ADJUSTMENT▷  
PICTURE ■■■■■■■■■■ 88  
COLOR ■■■■■■■■■■ 72  
BRIGHT ■■■■■■■■■■ 70  
HUE ■■■■■■■■■■ 00  
SHARP ■■■■■■■■■■ 46

4 Press Δ + or ∇ - to move the cursor (▷) to the item you want to adjust, and press ENTER

5 Press Δ + or ∇ - to adjust the item, and press ENTER.

Item	Press Δ + to	Press ∇ - to
PICTURE	Increase picture contrast	Decrease picture contrast
COLOR	Increase color intensity	Decrease color intensity
BRIGHT	Brighten the picture	Darken the picture
HUE	Make skin tones become greenish	Make skin tones become reddish
SHARP	Sharpen the picture	Soften the picture

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

#### Note

- You can adjust HUE for NTSC color system only.

If the color of the picture is abnormal when receiving programs through the II (antenna) terminal

Press COLOR SYSTEM on the projection TV or change the TV system setting from the menu as described below until the color becomes normal.

1 Press MENU.

2 Press Δ + or ∇ - to move the cursor (▷) to PRESET, and press ENTER.

3 Press Δ + or ∇ - to move the cursor (▷) to MANUAL PROGR, and press ENTER.

4 Press Δ + or ∇ - to move the cursor (▷) to TV SYS, and press ENTER.

5 Press Δ + or ∇ - to change the TV system until the color becomes normal.

#### Note

- Normally set COLOR SYSTEM to AUTO.

## Selecting the sound mode

You can select the sound mode using the menu as well as the SOUND MODE button on the remote commander. Select AUDIO CONTROL from the main menu, then select the desired mode.

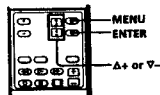
Press SOUND MODE until the mode you want appears on the screen.



Select	To
MUSIC	Listen to music programs. It gives sound with a live concert effect.
NEWS	Listen to news program. A person's voice can be heard clearly.
STADIUM	Listen to sports program. It gives sound with a sports stadium effect.
STANDARD	Listen to sound other than music, news or sports program.
PERSONAL	Listen to the sound that is adjusted using ADJUSTMENT in the AUDIO CONTROL menu.

## Adjusting the sound setting (ADJUSTMENT)

You can adjust the sound quality to suit your taste with the ADJUSTMENT option. The adjusted settings are stored in the PERSONAL option.



1 Press MENU.

VIDEO CONTROL  
AUDIO CONTROL  
FEATURES  
PRESET  
LANGUAGE

2 Press Δ + or ∇ - to move the cursor (▶) to AUDIO CONTROL, and press ENTER.

AUDIO CONTROL  
▶ MUSIC  
NEWS  
STADIUM  
STANDARD  
PERSONAL  
ADJUSTMENT

3 Press Δ + or ∇ - to move the cursor (▶) to ADJUSTMENT, and press ENTER.

PERSONAL ADJUSTMENT  
▶ BASS ■■■■■■■■■■ 57  
TREBLE ■■■■■■■■■■ 64  
BALANCE ■■■■■■■■■■ 00  
SURROUND : OFF

4 Press Δ + or ∇ - to move the cursor (▶) to the item you want to adjust, and press ENTER.

5 Press Δ + or ∇ - to adjust the item, and press ENTER.

Item	Press Δ + to	Press ∇ - to
BASS	Increase the bass sound	Decrease the bass sound
TREBLE	Increase the treble sound	Decrease the treble sound
BALANCE	Increase the volume of right speaker	Increase the volume of left speaker

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

16-EN Operations

## Listening to surround sound

You can enjoy a surround sound effect that is like being in a movie theater or a concert hall when receiving stereo signals.

1 Press MENU.

2 Press Δ + or ∇ - to move the cursor (▶) to AUDIO CONTROL, and press ENTER.

3 Press Δ + or ∇ - to move the cursor (▶) to ADJUSTMENT, and press ENTER.

PERSONAL ADJUSTMENT  
▶ BASS ■■■■■■■■■■ 57  
TREBLE ■■■■■■■■■■ 64  
BALANCE ■■■■■■■■■■ 00  
SURROUND : OFF

4 Press Δ + or ∇ - to move the cursor (▶) to SURROUND, and press ENTER.

5 Press Δ + or ∇ - to select ON, and press ENTER.

If the sound is distorted or noisy when receiving programs through the 11 (antenna) terminal

Press COLOR SYSTEM on the projection TV or change the TV system setting as follows until the sound becomes clear.

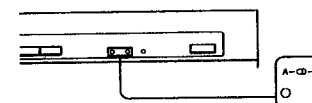
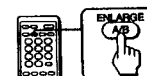
- 1 Press MENU.
- 2 Press Δ + or ∇ - to move the cursor (▶) to PRESET, and press ENTER.
- 3 Press Δ + or ∇ - to move the cursor (▶) to MANUAL PROGR, and press ENTER.
- 4 Press Δ + or ∇ - to move the cursor (▶) to TV SYS, and press ENTER.
- 5 Press Δ + or ∇ - to change the TV system until the sound becomes clear.

Note  
• Normally set COLOR SYSTEM to AUTO.

## Selecting a stereo or bilingual program

You can enjoy stereo sound or bilingual program of NICAM and A2 (German) stereo systems. The initial setting is stereo sound.

Press A/B/ENLARGE repeatedly until you receive the sound you want.  
The sound changes and the corresponding indicator lights up as follows:



When receiving a NICAM program:

Broadcasting	On-screen Display	Selected sound (Indicator lit)
NICAM stereo	NICAM	→ Stereo → Regular (A and B)
NICAM bilingual	NICAM	→ A → B → Regular (A) (B)
NICAM monaural	NICAM	→ NICAM monaural (A) Regular

When receiving an A2 (German) stereo program:

Broadcasting	On-screen display	Selected sound (Indicator lit)
A2 (German) stereo	STEREO	→ Stereo → Monaural (A and B)
A2 (German) bilingual	—	→ A → B (A) (B)

## Receiving area for NICAM and A2 (German) stereo programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, etc.
A2 (German) stereo	Australia, Malaysia, Thailand, etc.

### Notes

- If the signal is very weak, the sound becomes monaural.
- If the stereo sound is noisy, select "regular" or "mono." The sound becomes monaural, however, the noise will be reduced.

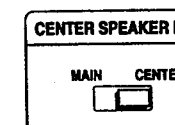
You cannot receive stereo broadcasts in mainland China.

## Setting the speaker switch

If you connect a Dolby Pro Logic-compatible amplifier to the CENTER SPEAKER IN terminals, you can use the projection TV speakers as center speakers.

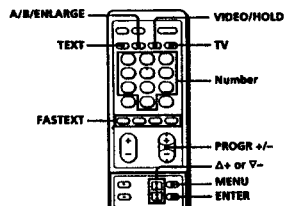
To use the projection TV speakers as center speakers, set the CENTER SPEAKER IN switch located at the rear of the projection TV to CENTER.

To listen to the sound from the projection TV, set to MAIN. See page 25 for connection.



## Viewing Teletext

TV stations broadcast an information service called Teletext via a local TV channel. Teletext service allows you to receive various information such as weather forecasts or news at any time. Some of the features, however, may not be available depending on the Teletext service.



### Note on Teletext

- Teletext service is not available in Chinese.

### Displaying Teletext

- 1 Select a TV channel which carries the Teletext broadcast you want to watch.
- 2 Press **TEXT** to display the Teletext. A Teletext page (normally the index page) is displayed on the left. If there is no Teletext broadcast, P100 appears in the top left corner of the screen.

To switch Teletext off, press **TV**.

### Superimposing a Teletext page on the TV picture

#### Press **TEXT**.

Each time you press **TEXT**, the screen changes as follows:

Teletext → Teletext and TV → TV

### Checking the contents of a Teletext service (INDEX)

When Teletext is switched on, you can display the Teletext menu.

- 1 Press **MENU**.

INDEX  
TEXT CLEAR  
SUBTITLES  
REVEAL OFF  
TIME PAGE  
SUBPAGE

- 2 Press **Δ + or ∇ -** to move the cursor (▷) to **INDEX**, and press **ENTER**.

### Selecting a Teletext page

Press the number buttons to enter the three-digit page number of the Teletext number you want.

If you make a mistake, re-enter the correct page number.

To access the next or previous page, press **PROGR +/-**.

#### Note

- When you request another Teletext page while viewing one Teletext page, the page scrolling may pause on a different page depending on the Teletext service, but the search will continue till the requested page is displayed.

### Preventing a Teletext page from being updated (HOLD)

A Teletext page may consist of several subpages. You can stop the page scrolling in order to read the text at your own pace.

#### Press **VIDEO/HOLD**.

**HOLD** appears in the top left corner of the screen.

To resume normal Teletext operation, press **TEXT**.

### Using **FASTEXT**

This feature allows you to quickly access a Teletext page that uses **FASTEXT**. When a **FASTEXT** page is broadcast, a color-coded menu appears at the bottom of the screen. The colors of the menu correspond to the red (TV/VIDEO), green (FREEZE), yellow (SWAP) and blue (PIP) buttons on the remote commander. These colored buttons function as the **FASTEXT** buttons in Teletext mode.

Press the colored button which corresponds to the color-coded menu.

The page is displayed after a few seconds.

### Enlarging the Teletext display (ENLARGE)

Each time you press **A/B/ENLARGE**, the Teletext display changes as follows:

Enlarge upper half → Enlarge lower half → Normal size

### Revealing concealed information (REVEAL)

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option discloses the information.

- 1 Press **MENU**.
- 2 Press **Δ + or ∇ -** to move the cursor (▷) to **REVEAL**, and press **ENTER**.
- 3 Press **Δ + or ∇ -** to select **ON**, and press **ENTER**.

To conceal the information again, select **OFF**.

### Watching a TV program while waiting for a requested Teletext page (TEXT CLEAR)

- 1 Select the Teletext page to which you want to refer.
- 2 Press **MENU**.
- 3 Press **Δ + or ∇ -** to move the cursor (▷) to **TEXT CLEAR**, and press **ENTER**.
- 4 When the page number is displayed on the screen, press **TEXT** to switch the Teletext on.

To restore the normal Teletext reception, press **TEXT**.

### Displaying subtitles (SUBTITLES)

Your Teletext service informs you if a TV program is subtitled.

- 1 Press **MENU**.
- 2 Press **Δ + or ∇ -** to move the cursor (▷) to **SUBTITLES**, and press **ENTER**.

#### Note

- If the subtitles are not broadcast on page 888, select the subtitle page using the number buttons.

### Displaying a Teletext page at the requested time (TIME PAGE)

You can display a time-coded page (e.g. an alarm page) at the time you preset.

- 1 Press **MENU**.
- 2 Press **Δ + or ∇ -** to move the cursor (▷) to **TIME PAGE**, and press **ENTER**.
- 3 Press the number buttons to enter four digits for the desired time. For example, to enter 7:30, press 0, 7, 3 and 0.

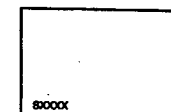


At the requested time, the page appears on the screen.

To restore the normal Teletext reception, press **TEXT**.

### Displaying a particular page among several subpages (SUBPAGE)

- 1 Press **MENU**.
- 2 Press **Δ + or ∇ -** to move the cursor (▷) to **SUBPAGE**, and press **ENTER**.
- 3 Press the number buttons or **PROGR +/-** to enter four digits for the desired subpage. For example, to display the second page of a sequence, press 0, 0, 0 and 2.



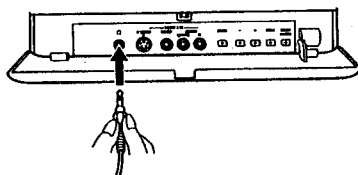
## Using headphones

You can use headphones to enjoy the sound of the TV. This feature does not allow you to enjoy the sound of PIP screens.

### Listening to the sound of the projection TV with headphones

Insert the headphones into the  (headphones) jack located on the front panel of the projection TV.

The sound from the speaker is shut off.  
To adjust the headphones volume, press VOL +/-.



## Customizing the projection TV

### Using the AV OUT (advance rec-out) terminal

You can select the output signal from the VIDEO jacks at the rear of the projection TV.  
The S Video output can be used only when MONITOR is selected.

- 1 Press MENU.
- 2 Press  $\Delta$  + or  $\nabla$  - to select FEATURES, and press ENTER.

```
FEATURES▷ MONITOR
▶AV OUT: OFF
SLEEP: OFF
PIP POSITION: ☐
CONVERGENCE
```

- 3 Press  $\Delta$  + or  $\nabla$  - to select AV OUT, and press ENTER.
- 4 Press  $\Delta$  + or  $\nabla$  - to select the output signal, and press ENTER.

Select	To
TV	Output the TV signal.
MONITOR	Output the signal of the picture you are watching as a main picture.

#### Note

- Do not change the channel while recording with a VCR through the MONITOR/TV OUT jacks. If you change the channel, it also changes the channel you are recording.

### Presetting channels manually

To change the program position for a channel or to receive a channel with a weak signal, preset the channel manually.  
For example, preset a channel in program position 8.

- 1 Press MENU.
- 2 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\triangleright$ ) to PRESET, and press ENTER.

```
PRESET▷
▶AUTO PROGR
MANUAL PROGR
```

- 3 Press  $\Delta$  + or  $\nabla$  - to select MANUAL PROGR, and press ENTER.

```
MANUAL PROGR▷
▶PR: 01+
LABEL: M E/ASIA
AREA: C01
CH: ON
TV.SYS: B/G
ATT: OFF
```

- 4 Select the program position to which you want to preset a channel.
    - (1) Press  $\Delta$  + or  $\nabla$  - to select PR, and press ENTER.
    - (2) Press  $\Delta$  + or  $\nabla$  - to select 8.

You can also select the program position with PROGR +/- or the number buttons (e.g. for program 24, press +7-, 2 and 4).

  - (3) Press ENTER.
- 5 Select your area (channel system).
 

For the areas allocated in each channel system, see "Channel allocation" on page 27.

    - (1) Press  $\Delta$  + or  $\nabla$  - to select AREA, and press ENTER.
    - (2) Press  $\Delta$  + or  $\nabla$  - to select your area, and press ENTER.
  - 6 Select a channel which you want to preset.
    - (1) Press  $\Delta$  + or  $\nabla$  - to select CH, and press ENTER.
    - (2) Press  $\Delta$  + or  $\nabla$  - until the channel you want appears on the screen.

You can also select the channel directly using the number buttons. Press C (once for VHF/UHF channels, twice for cable TV channels), then the number buttons (e.g., for channel 5, press 0 and 5).

  - (3) Press ENTER.

To preset other channels  
Repeat steps 4 to 6.

### Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/-.

For example, disable program position 8.

- 1 Display the MANUAL PROGR menu. (Follow steps 1 to 3 in "Presetting channels manually" on this page.)
  - 2 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\triangleright$ ) to PR, and press ENTER.
  - 3 Press PROGR + or - until 8 appears.
  - 4 Press  $\Delta$  + or  $\nabla$  - to select "-", and press ENTER.
- To skip other program positions, repeat steps 3 and 4.

To restore the skipped program positions  
In step 4 above, press  $\Delta$  + or  $\nabla$  - to select "+," and press ENTER.

## Customizing channel names

You can caption each channel number using up to five letters to be displayed on the screen.

- 1 Display the **MANUAL PROGR** menu. (Follow steps 1 to 3 in "Presetting channels manually" on page 21.)
- 2 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **PR**, and press **ENTER**.
- 3 Press  $\Delta$  + or  $\nabla$  - to select the program position you want to caption and press **ENTER**.
- 4 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **LABEL**, and press **ENTER**.
- 5 Press  $\Delta$  + or  $\nabla$  - to select a letter or number, and press **ENTER** for each caption space (up to five.)  
Each time you press  $\Delta$  + or  $\nabla$  -, the letter (number) changes as shown below.  
A  $\rightarrow$  B  $\rightarrow$  ...  $\rightarrow$  Z  $\rightarrow$  0  $\rightarrow$  1  $\rightarrow$  ...  $\rightarrow$  9  $\rightarrow$  -  $\rightarrow$  /  $\rightarrow$  -  $\rightarrow$  +  $\rightarrow$  \_ (space)  
For the caption space you want to leave blank, select "-".
- 6 Repeat steps 2 to 5 to caption other channels.

To erase a caption  
In step 5 above, select " \_ (space)."

## Manual fine-tuning

Normally, the automatic fine-tuning (AFT) is operating. However, if the picture of a channel is distorted, you can use the manual fine-tuning function for the channel to obtain better picture reception.

- 1 Display the **MANUAL PROGR** menu. (Follow steps 1 to 3 in "Presetting channels manually" on page 21.)
- 2 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **PR**, and press **ENTER**.
- 3 Press  $\Delta$  + or  $\nabla$  - to select the program position corresponding to the channel which you want to manually fine-tune, and press **ENTER**.
- 4 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **AFT**, and press **ENTER**.
- 5 Press  $\Delta$  + or  $\nabla$  - to select **OFF**, and press **ENTER**.
- 6 Press  $\Delta$  + or  $\nabla$  - to fine-tune the channel so that you get the best TV reception.  
As you press these buttons, the frequency changes from -128 to +128.
- 7 After fine-tuning, press **ENTER**.  
The fine-tuned level is stored.

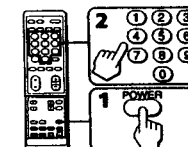
## Improving TV signal

If the reception signal is very strong, you can attenuate it to obtain better picture reception.

- 1 Display the **MANUAL PROGR** menu. (Follow steps 1 to 3 in "Presetting channels manually" on page 21.)
- 2 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **PR**, and press **ENTER**.
- 3 Press  $\Delta$  + or  $\nabla$  - to select the program position corresponding to the channel whose signal is very strong, and press **ENTER**.
- 4 Press  $\Delta$  + or  $\nabla$  - to move the cursor ( $\triangleright$ ) to **ATT**, and press **ENTER**.
- 5 Press  $\Delta$  + or  $\nabla$  - to select **ON**, and press **ENTER**.

## Setting the remote command mode

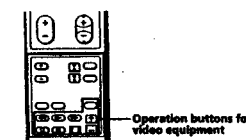
You can use the supplied remote commander to operate the TV and Sony video equipment, such as a VCR or multi-disc player. To operate Sony video equipment, first set the remote command mode for the video equipment you want to use.



- 1 Press and hold the **POWER** button in the VCR control area.
- 2 Press the number buttons that correspond to the remote command mode.

Mode number buttons	Remote command mode
0 and then 1	VTR1 (e.g., Beta format VCR)
0 and then 2	VTR2 (e.g., 8 mm format VCR)
0 and then 3	VTR3 (e.g., VHS format VCR)
0 and then 4	MDP (multi-disc player)

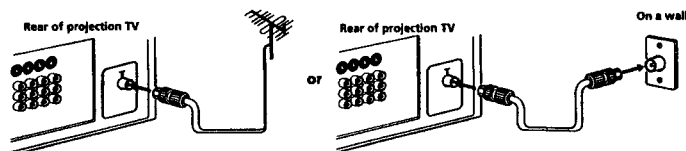
After setting the remote command mode, you can use the following buttons to operate the video equipment.



## Connections

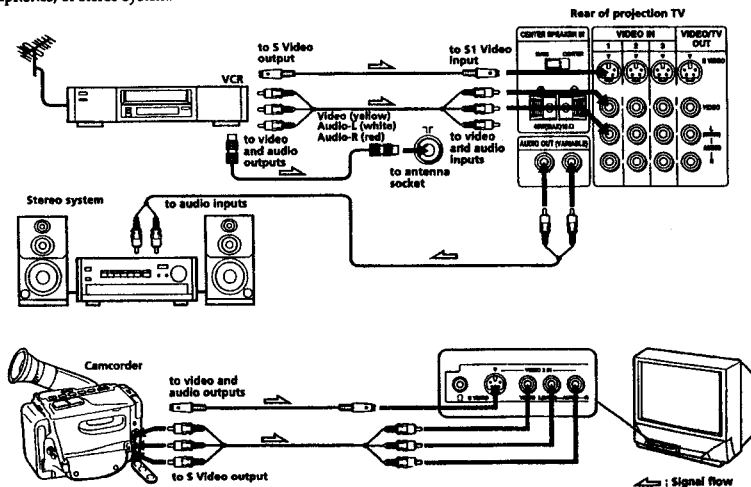
### Connecting a VHF antenna or a combination VHF/UHF antenna—75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable. Plug the connector into the  $\Gamma$  (antenna) terminal at the rear of the projection TV.



### Connecting optional equipment

You can connect optional audio/video equipment to this projection TV such as a VCR, multi-disc player, camcorder, headphones, or stereo system.



#### When connecting a monaural VCR

Connect the yellow plug to VIDEO and the white plug to AUDIO-L (mono).

#### If both S Video and video signals are input

The S Video input signal is selected. To view a video signal, disconnect the S Video connection.

#### Note on the video input

When no signal is input, the screen becomes black and on-screen display becomes dark.

#### When connecting a VCR to the VIDEO 3 IN jacks

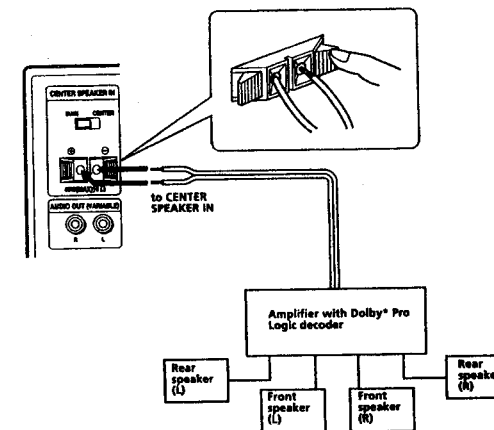
This projection TV is equipped with two sets of the VIDEO 3 IN jacks on the front and rear panels. Front and rear jacks are not available to be used at the same time. When using equipment connected, turn off other equipment not in use.

### Connecting an amplifier with Dolby Pro Logic decoder

If you use an amplifier with Dolby Pro Logic decoder instead of the projection TV's audio system, you can still use the projection TV's center speaker.

\*Manufactured under license from Dolby Laboratories Licensing Corporation.

DOLBY, the double-D symbol  $\text{DD}$  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.



## Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.

If the problem persists, contact your nearest authorized service center or dealer.

### Snowy picture Noisy sound



- Check the antenna.
- Check the antenna connection on the projection TV and on the wall.

### Dotted lines or stripes



- This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.) Adjust the antenna for minimum interference.

### Double images or "ghosts"



- This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

### Good picture Noisy sound



- Check the TV SYSTEM setting.

### No picture No sound



- Press POWER.
- Press POWER to turn the projection TV off for 5 to 6 seconds, then turn it on again by pressing POWER.
- Check the antenna connection.
- Check the VCR connections.

### Good picture No sound



- Press VOL +.
- Press MUTE.

### No color



- Adjust COLOR in the VIDEO CONTROL menu's ADJUSTMENT option.
- Check the COLOR SYSTEM setting.

### TV cabinet creaks

- Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

## Channel allocation

### Areas allocated in each channel system

#### M E/ASIA/CATV W EURO

Afghanistan, Albania, Algeria, Austria, Bahrain, Bangladesh, Belgium, Brunei, Canary Islands, Cyprus, Denmark, Egypt, Finland, Germany, Ghana, Gibraltar, Greece, Iceland, India, Indonesia, Iran, Iraq, Italy, Jordan, Kenya, Republic of Korea, Kuwait, Lebanon, Liberia, Libya, Luxembourg, Malaysia, Malta, Mauritania, Mauritius, Maldives Rep., Morocco, Mozambique, Nepal, Netherlands, New Zealand, Nicaragua, Nigeria, Norway, Oman, Pakistan, Portugal, Qatar, Sarawak, Saudi Arabia, Seychelles, Sierra Leone, Singapore, Spain, Sri Lanka, Sudan, Swaziland, Sweden, Switzerland, Syrian Arab Rep., Tanzania, Thailand, Tunisia, Turkey, Uganda, United Arab Emirates, Western Sahara, Yemen Arab Republic, People's Dem. Rep. of Yemen, Yugoslavia, Zambia, Zimbabwe

#### AUSTRALIA

Australia, New Zealand

#### HK/UK

Hong kong, Ireland, Lesotho, South Africa, United Kingdom

#### CHINA/E EURO

Benin, Bulgaria, China, Congo, Czechoslovakia, Djibouti Republic, Gabon, Guadeloupe, Guiana, Guinea (P.P.R.), Hungary, Ivory Coast, Dem. People's Rep. of Korea, Madagascar, Mongolia, New Caledonia, Niger, Poland, Reunion, Rumania, Senegal, Tahiti, Togo, Former U.S.S.R., Vietnam, Zaire

#### AMERICA/CATV AMERICA

Bahama Islands, Barbados, Belize, Bermuda, Bolivia, Burma (UHF), Canada, Chile, Colombia, Costa Rica, Cuba, Dominica Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Hawaii, Honduras, Jamaica, Laos, Mexico, Panama, Peru, Philippines, Puerto Rico, Surinam, Taiwan, Trinidad & Tobago, U.S.A., U.S.A. (CATV), Venezuela

#### JAPAN

Burma (Myanmar) (VHF), Japan (VHF, UHF)

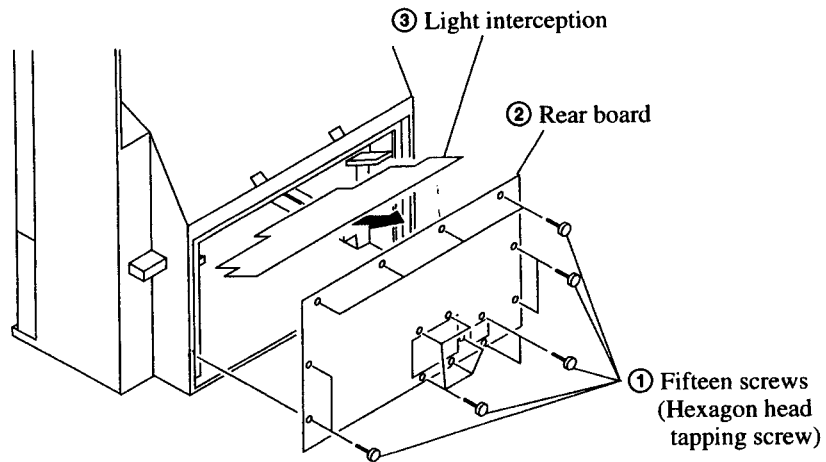
### TV and color systems of each channel system

The TV system and color system are automatically set according to the channel system.

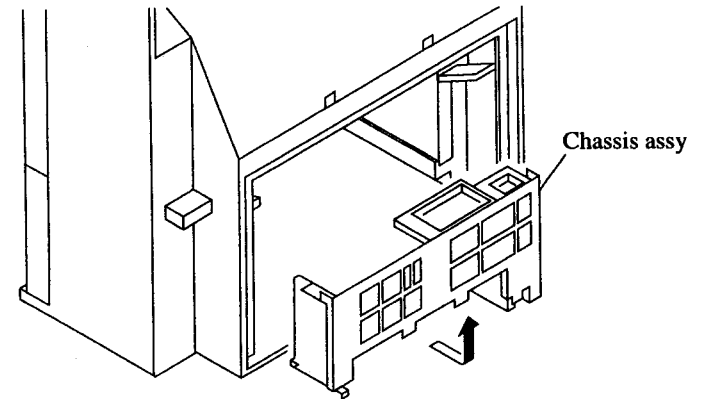
Channel system	TV system	Color system
M E/ASIA/CATV W EURO	B/G, H: West European TV standard	AUTO
AUSTRALIA	B/G, H: Australian TV standard	AUTO
HK/UK	I: British TV standard	AUTO
CHINA/E EURO	D/K: East European TV standard	AUTO
AMERICA/CATV AMERICA	M: American TV standard	AUTO
JAPAN	M: Japan TV standard	AUTO

## SECTION 2 DISASSEMBLY

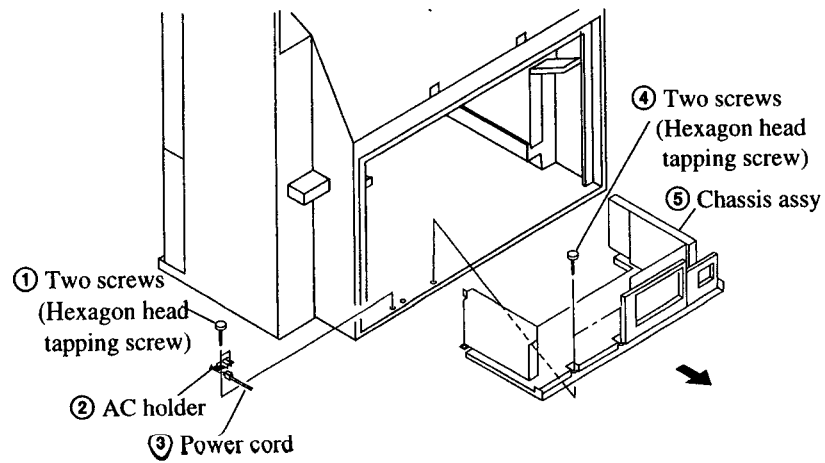
### 2-1-1. REAR BOARD AND LIGHT INTERCEPTION REMOVAL



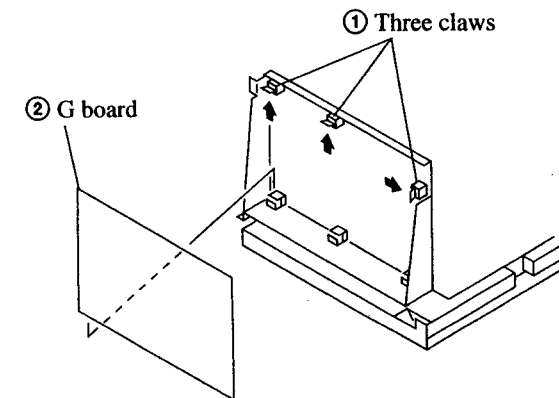
### 2-1-3. SERVICE POSITION



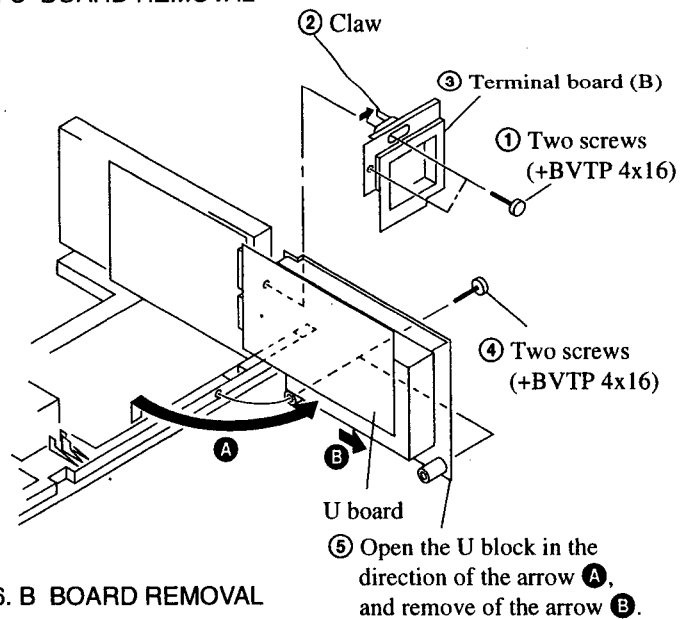
### 2-1-2. CHASSIS ASSY REMOVAL



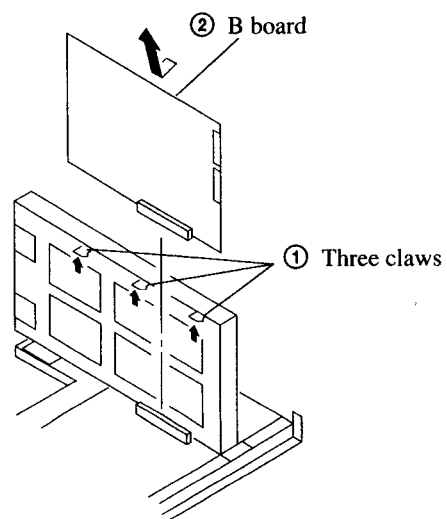
### 2-1-4. G BOARD REMOVAL



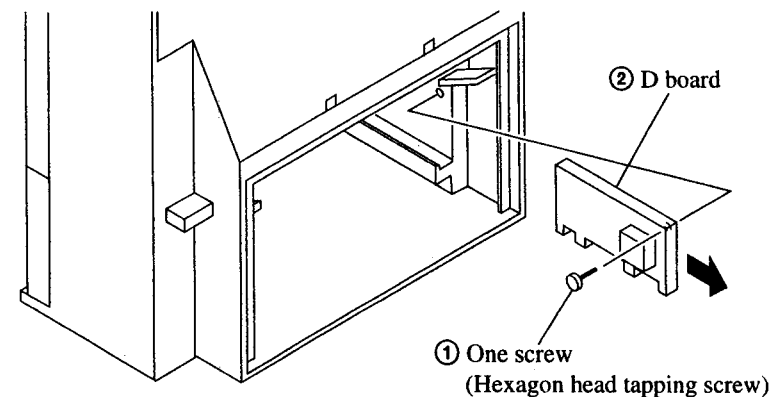
## 2-1-5. U BOARD REMOVAL



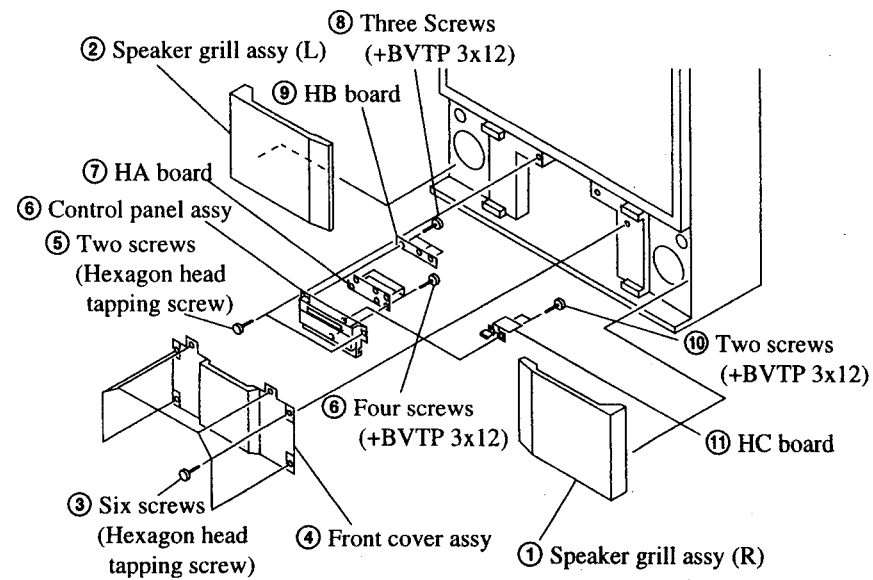
## 2-1-6. B BOARD REMOVAL



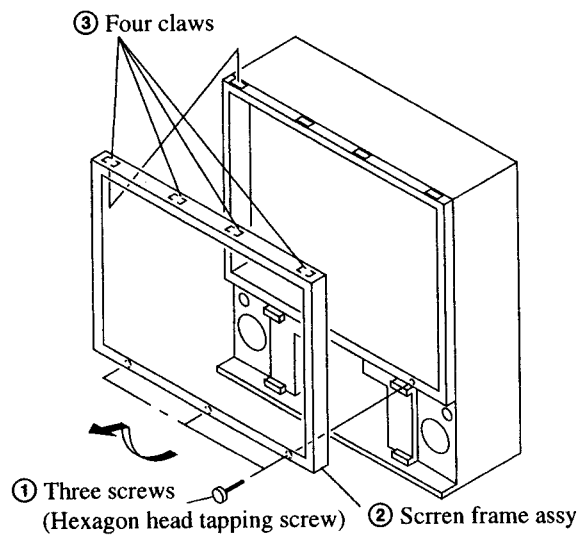
## 2-1-7. D BOARD REMOVAL



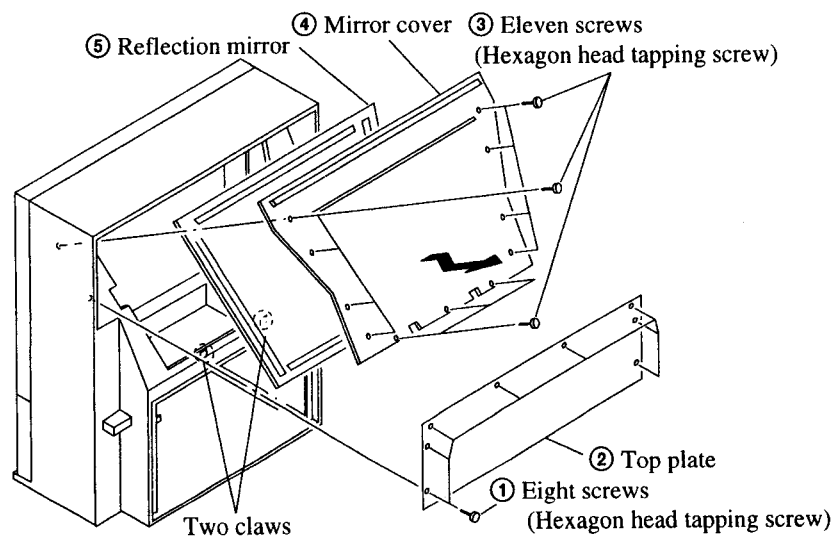
## 2-1-8. HA, HB AND HC BOARDS REMOVAL



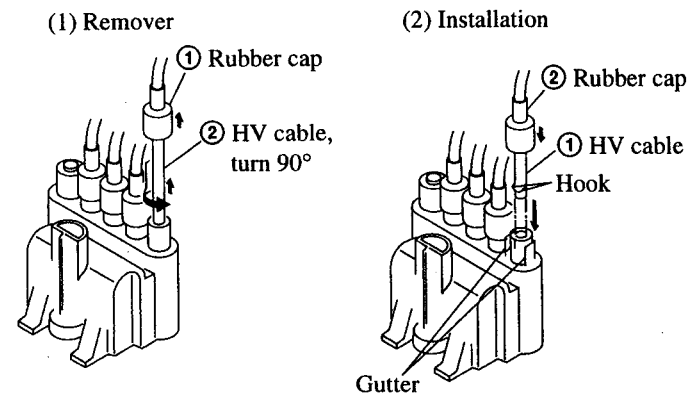
## 2-1-9. SCREEN FRAME ASSY REMOVAL



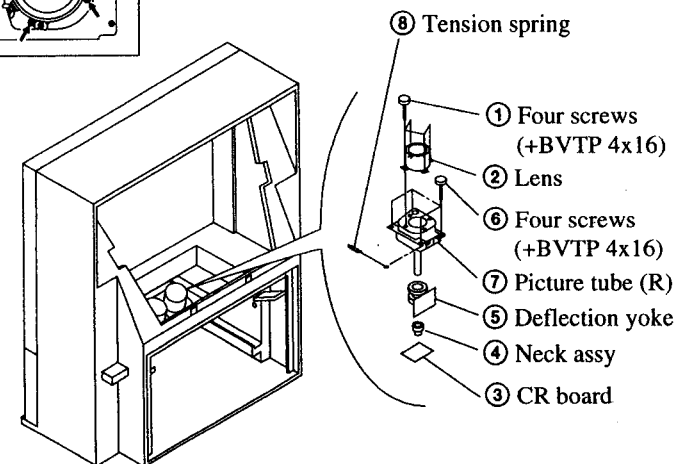
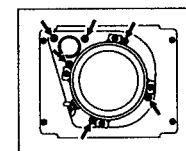
## 2-1-10. REFLECTION MIRROR REMOVAL



## 2-1-11. HIGHT-VOLTAGE CABLE INSTALLATION AND REMOVAL

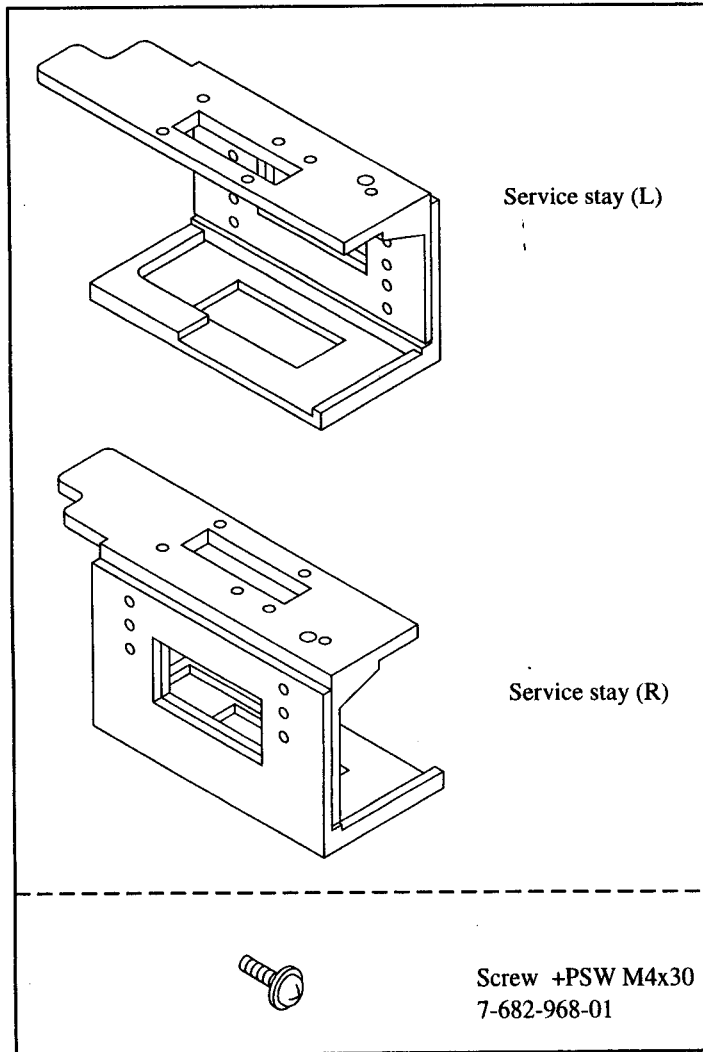


## 2-1-12. PICTURE TUBE REMOVAL



## 2-2.SERVICE STAY ASSY HOW TO USE AND CARRY BACK SERVICE STAY ASSY

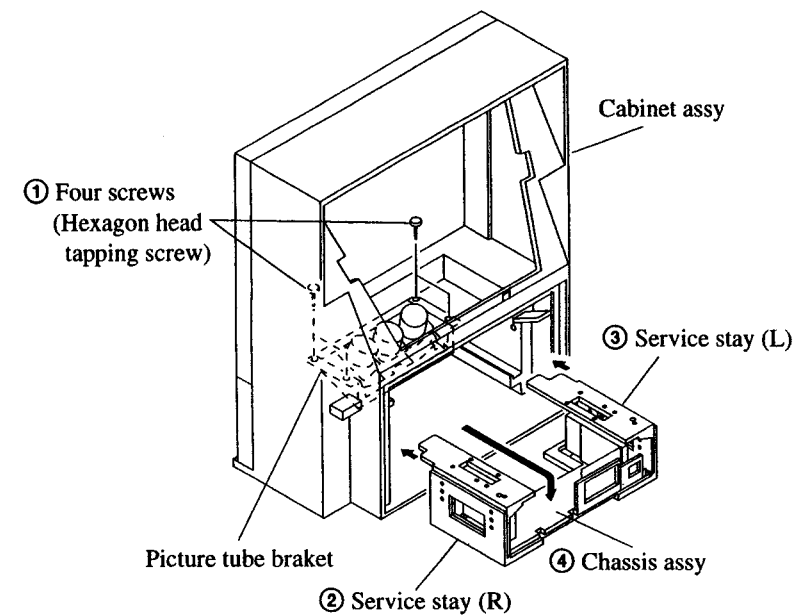
### 2-2-1.SERVICE STAY ASSY (X-4034-033-1)



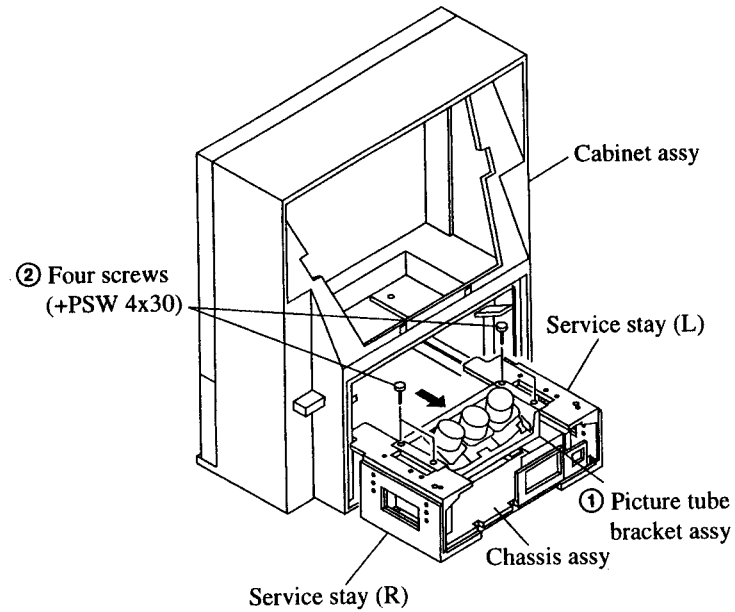
### ● PREPARATION

- 1) Remove the rear board and chassis assy while referring to the instructions.
- 2) Remove the control panel assy while referring to the instructions.
- 3) Remove the mirror cover while referring to the instructions.
- 4) Remove the harnesses from the purse lock.
- 5) Remove the connector from the speaker. (U board : CN2004, CN2008)

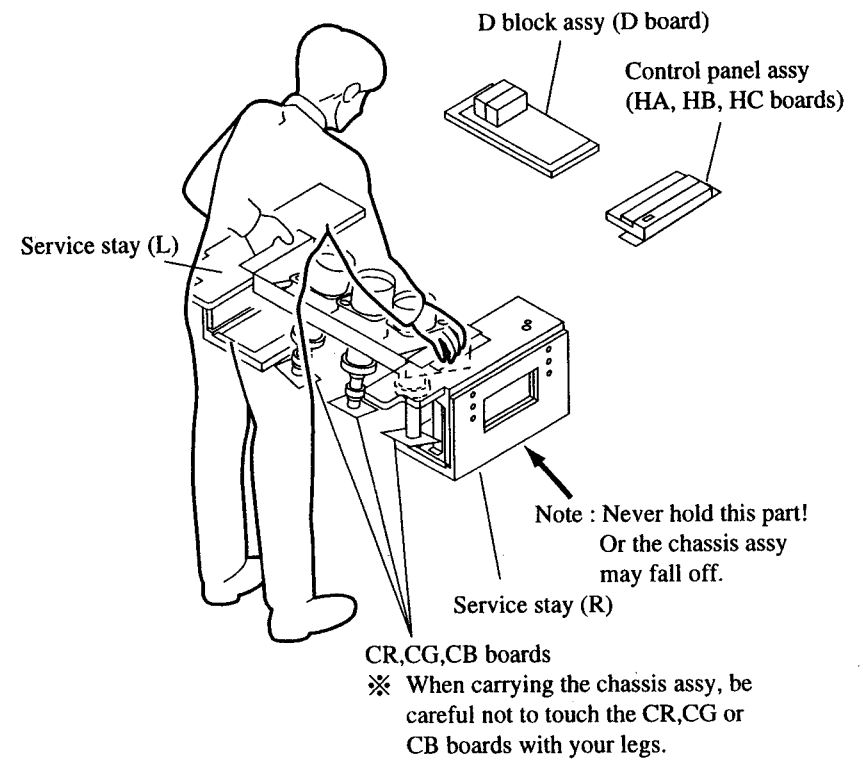
### 2-2-2. PICTURE TUBE BRACKET ASSY REMOVAL AND INSTALL A CHASSIS ASSY



### 2-2-3. INSTALL A PICTURE TUBE BRACKET ASSY.

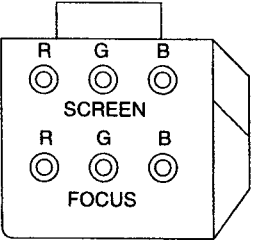
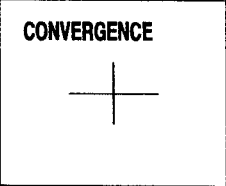
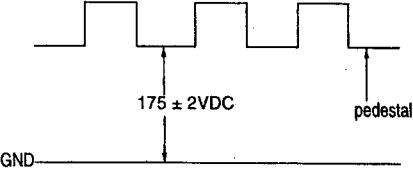


### 2-2-4. CARRY BACK SERVICE STAY ASSY

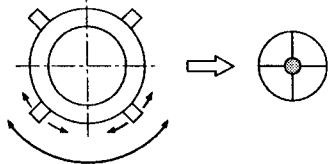
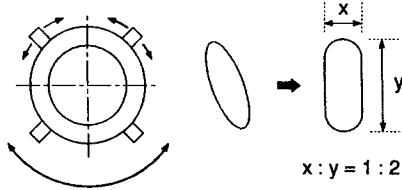
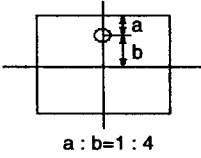
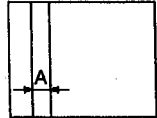


- ※ Even with 2 servicemen, be sure to put your hands in to the grooves on the top of service stays (L) and (R) to carry the chassis assy.
- ※ To hold the chassis assy, put your hands into the grooves on the top of service stays (L) and (R).

## SECTION 3 SET-UP ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p><b>SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)</b></p> <ol style="list-style-type: none"> <li>1. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.</li> <li>2. Next gradually turn it to the left to the position where the retrace line disappears.</li> </ol> <p><b>FOCUS LENS ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Loose the lens screw.</li> <li>2. Set in service mode.</li> <li>3. Use VSP on the service mode menu to shown only the green color.</li> <li>4. Press the Commander Menu button and select FEATURES and CONVERGENCE to display the test signal on the screen.</li> <li>5. Rotate the green lens and align with the optimal focus point from the test signal.</li> <li>6. Use RRH from the service mode menu to set to green and red.</li> <li>7. Output the test signal and rotate the red lens to obtain the optimum focus at the point where the red and green spots overlap.</li> <li>8. Use RBH from the service mode menu to set to red and blue.</li> <li>9. Output the test signal and rotate the blue lens to obtain the optimum focus at the point where the blue and red spots overlap.</li> <li>10. Tighten the lens screw.</li> </ol> <p><b>SCREEN (G2) ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Select VIDEO mode without signals.</li> <li>2. Connect an oscilloscope to the TP701(KR), TP731(KG) and TP761(KB) of CR board, CG board and CB board.</li> <li>3. Adjust R, G and B screen voltage to <math>175 \pm 2\text{VDC}</math> with screen VR on the focusblock.</li> </ol>	Monoscope Pattern		<p>PICTURE ..... minimum BRIGHTNESS ..... 50% SCREEN (G2)</p>	 <p style="text-align: center;">FOCUS block</p>  

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p><b>FOCUS VR ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Set in service mode.</li> <li>2. Use VSP on the service mode menu to shown only the green color.</li> <li>3. Press the Commander Menu button (convergence) and output the test signal.</li> <li>4. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point.</li> <li>5. Use RRH from the service mode menu to set to green and red.</li> <li>6. Output the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap.</li> <li>7. Use RBH from the service mode menu to set to red and blue.</li> <li>8. Output the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap.</li> </ol>				<p style="text-align: center;">Lens</p> <p style="text-align: center;">Scanning line visible.</p> <p style="text-align: center;">Minimize both A and B.</p>
<p><b>DEFLECTION YOKE TILT ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Set in service mode.</li> <li>2. Set to receive the monoscope signal.</li> <li>3. Use VSP on the service mode menu to shown only the green color.</li> <li>4. Loosen the deflection yoke setscrew and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.</li> <li>5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.</li> <li>6. The tilt of the deflection yoke for red is aligned with RRH on the service mode menu, and the tilt on the deflection yoke for green is aligned with RBH on the service menu, is aligned the same as was done for green.</li> </ol>	<p>Monoscope pattern</p>			<p style="text-align: center;">2-pole magnet      4-pole magnet      Deflection yoke</p> <p style="text-align: center;">Neck Assy      Anode cap</p>

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<b>2-POLE MAGNET ADJUSTMENT</b> <ol style="list-style-type: none"> <li>1. Set in service mode.</li> <li>2. Set to receive the dot pattern signal.</li> <li>3. Place the caps on the red and blue lens so that only the green color is shown.</li> <li>4. Turn the green VR on the focus block to the right and set to overfocus to enlarge the spot.</li> <li>5. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.</li> <li>6. Align the green focus VR and set for just (precise) focus.</li> <li>7. Perform the same alignment for red and blue.</li> </ol>	Dot pattern		2-pole magnet	<p>Use the center dot</p> 
<b>4-POLE MAGNET ADJUSTMENT</b> <ol style="list-style-type: none"> <li>1. Set in service mode.</li> <li>2. Set to receive the dot pattern signal.</li> <li>3. Place the caps on the red and blue lens so that only the green color is shown.</li> <li>4. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot.</li> <li>5. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.</li> </ol>	Dot pattern		4-pole magnet	<p>Use the center dot</p>  <p><math>x : y = 1 : 2</math></p>
<b>DEFOCUS ADJUSTMENT</b> <ol style="list-style-type: none"> <li>1. Receive the crosshatch signal.</li> <li>2. Adjust the FOCUS knob so that the crosshatch pattern vertical line width is as in the figure on the right.</li> </ol>	Crosshatch pattern		FOCUS VR • RED • GREEN • BLUE	<p>• Focus adjustment point</p>  <p><math>a : b = 1 : 4</math></p>  <p><math>A : 61</math></p> <p>without flare</p>

## ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

Use of Remote Commander (RM-901) can be performed circuit adjustments about this model.

### NOTE : Test Equipment Required.

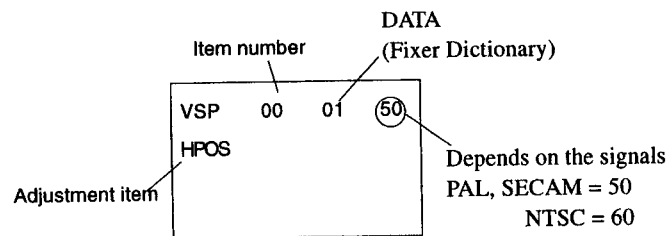
1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

### 1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

#### SERVICE MODE PROCEDURE

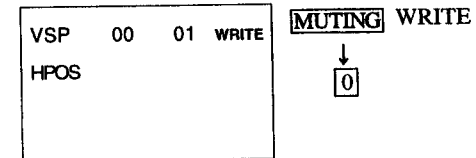
1. Standby mode. (Power off)
2. **DISPLAY** → **5** → **VOL(+)** → **POWER** on the Remote Commander.  
(Press each button within a second.)

#### SERVICE ADJUSTMENT MODE IN



3. The CRT displays the item Being adjusted.
4. Press **1** or **4** on the Remote Commander to select the item.
5. Press **3** or **6** on the Remote Commander to change the data.
6. If you want to recover the latest values press **7** then **0** to read the memory.
7. Press **5** then **0** to write initial data into memory.
8. Press **MUTING** then **0** to write into memory.

### SERVICE ADJUSTMENT MODE MEMORY

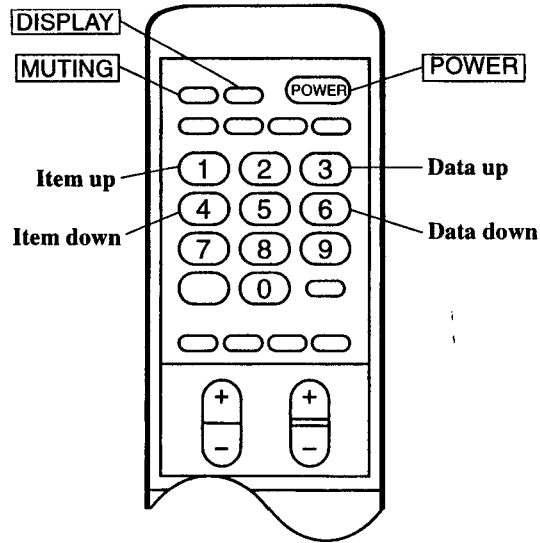


9. Press **8** then **0** on the Remote Commander to initialize.  
(Be sure not to use usually)
10. Turn set off and on to exit.

### 2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again, confirm they were adjusted.

### 3. ADJUST BUTTONS AND INDICATOR



RM-901

### 4. SERVICE MODE LIST

#### VSP

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
VSP	00	HPOS	0 ~ 63	28	28	H-SHIFT	CXD2018Q
	01	VSIZ	0 ~ 63	00	15	V-SIZE	
	02	VPOS	0 ~ 63	35	35	V-SHIFT	
	03	VSCO	0 ~ 15	07	07	S-CORRECTION	
	04	VLIN	0 ~ 15	08	08	V-LINEARITY	
	05	HSIZ	0 ~ 63	20	28	H-SIZE	
	06	HIPN	0 ~ 63	38	36	PIN-AMP	
	07	HKEY	0 ~ 31	15	15	TILT	
	08	UPCP	0 ~ 15	07	07	UPPER CORNER PIN	
	09	LOCP	0 ~ 15	06	06	LOWER CORNER PIN	
	10	HBOW	0 ~ 15	09	09	V-BOW	
	11	HSKE	0 ~ 15	08	08	V-ANGLE	

#### DP

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
R GH	00	CENT	-127 ~ +128	07	00	GREEN. H CENTER	CXP85112B-613S
	01	SKEW	-127 ~ +128	00	00	GREEN. H SKEW	
	02	BOW	-127 ~ +128	-01	-01	GREEN. H BOW	
	03	4BOW	-127 ~ +128	00	00	GREEN. H 4th BOW	
	04	SIZE	-127 ~ +128	09	00	GREEN. H SIZE	
	05	LIN	-127 ~ +128	06	-20	GREEN. H LINEARITY	
	06	MSIZ	-127 ~ +128	16	16	GREEN. H MIDDLE SIZE	
	07	MLIN	-127 ~ +128	06	06	GREEN. H MIDDLE LINEARITY	
	08	KEY	-127 ~ +128	00	00	GREEN. H KEY	
	09	SSKW	-127 ~ +128	14	14	GREEN. H SUB SKEW	
	10	MPIN	-127 ~ +128	-04	47	GREEN. H MIDDLE PIN	
	11	PIN	-127 ~ +128	47	02	GREEN. H PIN	
	12	SBOW	-127 ~ +128	-16	-16	GREEN. H SUB BOW	
	13	MBOW	-127 ~ +128	04	04	GREEN. H MIDDLE BOW	
	14	4PIN	-127 ~ +128	-11	-03	GREEN. H 4th PIN	
	15	4SBOW	-127 ~ +128	00	00	GREEN. H 4th SUB BOW	
R GV	00	CENT	-127 ~ +128	00	00	GREEN. V CENTER	CXP85112B-613S
	01	SKEW	-127 ~ +128	00	00	GREEN. V SKEW	
	02	BOW	-127 ~ +128	16	16	GREEN. V BOW	
	03	SIZE	-127 ~ +128	-30	-06	GREEN. V SIZE	
	04	LIN	-127 ~ +128	22	22	GREEN. V LINEARITY	
	05	MSIZ	-127 ~ +128	-05	-05	GREEN. V MIDDLE SIZE	
	06	MKEY	-127 ~ +128	-05	-05	GREEN. V MIDDLE KEY	
	07	KEY	-127 ~ +128	-18	-18	GREEN. V KEY	
	08	SSKW	-127 ~ +128	01	01	GREEN. V SUB SKEW	
	09	MPIN	-127 ~ +128	-04	-04	GREEN. V MIDDLE PIN	
	10	PIN	-127 ~ +128	42	42	GREEN. V PIN	
	11	SBOW	-127 ~ +128	08	08	GREEN. V SUB BOW	
	12	WAVE	-127 ~ +128	-01	-01	GREEN. V WAVE	
	13	4PIN	-127 ~ +128	07	07	GREEN. V 4th PIN	
R RH	00	CENT	-127 ~ +128	-40	-04	RED. H CENTER	CXP85112B-613S
	01	SKEW	-127 ~ +128	00	00	RED. H SKEW	
	02	BOW	-127 ~ +128	06	06	RED. H BOW	
	03	4BOW	-127 ~ +128	-01	-01	RED. H 4th BOW	
	04	SIZE	-127 ~ +128	10	-02	RED. H SIZE	
	05	LIN	-127 ~ +128	31	16	RED. H LINEARITY	
	06	MSIZ	-127 ~ +128	12	12	RED. H MIDDLE SIZE	
	07	MLIN	-127 ~ +128	-09	-09	RED. H MIDDLE LINEARITY	
	08	KEY	-127 ~ +128	-08	-08	RED. H KEY	
	09	SSKW	-127 ~ +128	04	04	RED. H SUB SKEW	
	10	MPIN	-127 ~ +128	54	54	RED. H MIDDLE PIN	
	11	PIN	-127 ~ +128	-01	-01	RED. H PIN	

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
R RH	12	SBOW	-127 ~ +128	07	07	RED. H SUB BOW	
	13	MBOW	-127 ~ +128	21	21	RED. H MID BOW	
	14	4PIN	-127 ~ +128	-10	00	RED. H 4th PIN	
	15	4SBOW	-127 ~ +128	-13	00	RED. H 4th SUB BOW	
R RV	00	CENT	-127 ~ +128	00	-43	RED. V CENTER	CXP85112B-613S
	01	SKEW	-127 ~ +128	00	00	RED. V SKEW	
	02	BOW	-127 ~ +128	17	17	RED. V BOW	
	03	SIZE	-127 ~ +128	70	00	RED. V SIZE	
	04	LIN	-127 ~ +128	24	24	RED. V LINEARITY	
	05	MSIZ	-127 ~ +128	-05	-05	RED. V MIDDLE SIZE	
	06	MKEY	-127 ~ +128	05	05	RED. V MIDDLE KEY	
	07	KEY	-127 ~ +128	05	05	RED. V KEY	
	08	SSKW	-127 ~ +128	01	01	RED. V SUB SKEW	
	09	MPIN	-127 ~ +128	-07	-07	RED. V MIDDLE PIN	
	10	PIN	-127 ~ +128	09	09	RED. V PIN	
	11	SBOW	-127 ~ +128	10	10	RED. V SUB BOW	
	12	WAVE	-127 ~ +128	29	29	RED. V WAVE	
	13	4PIN	-127 ~ +128	10	10	RED. V 4th PIN	
R BH	00	BSEL	0 / 1	01	00	RESISTRATION $\mu$ CON BSEL	CXP85112B-613S
	01	CENT	-127 ~ +128	-25	-08	BLUE. H CENTER	
	02	SKEW	-127 ~ +128	00	00	BLUE. H SKEW	
	03	BOW	-127 ~ +128	-01	-01	BLUE. H BOW	
	04	4BOW	-127 ~ +128	-03	-03	BLUE. H 4th BOW	
	05	SIZE	-127 ~ +128	-21	-21	BLUE. H SIZE	
	06	LIN	-127 ~ +128	-64	-64	BLUE. H LINEARITY	
	07	MSIZ	-127 ~ +128	22	22	BLUE. H MID SIZE	
	08	MLIN	-127 ~ +128	55	55	BLUE. H MID LINEARITY	
	09	KEY	-127 ~ +128	-08	-08	BLUE. H KEYSTONE	
	10	SSKW	-127 ~ +128	24	24	BLUE. H SUB SKEW	
	11	MPIN	-127 ~ +128	34	34	BLUE. H MID PIN	
	12	PIN	-127 ~ +128	10	10	BLUE. H PIN	
	13	SBOW	-127 ~ +128	-34	-34	BLUE. H SUB BOW	
	14	MBOW	-127 ~ +128	-12	-12	BLUE. H MID BOW	
	15	4PIN	-127 ~ +128	-10	-01	BLUE. H 4th PIN	
	16	4SBOW	-127 ~ +128	05	05	BLUE. H 4th SUB BOW	
R BV	00	CENT	-127 ~ +128	00	-17	BLUE. V CENTER	CXP85112B-613S
	01	SKEW	-127 ~ +128	00	00	BLUE. V SKEW	
	02	BOW	-127 ~ +128	13	13	BLUE. V BOW	
	03	SIZE	-127 ~ +128	45	-38	BLUE. V SIZE	
	04	LIN	-127 ~ +128	20	20	BLUE. V LINEARITY	
	05	MSIZ	-127 ~ +128	-07	-07	BLUE. V MIDDLE SIZE	
	06	MKEY	-127 ~ +128	-21	-21	BLUE. V MIDDLE KEY	

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
R BV	07	KEY	-127 ~ +128	67	67	BLUE. V KEY	CXP85112B-613S
	08	SSKW	-127 ~ +128	04	04	BLUE. V SUB SKEW	
	09	MPIN	-127 ~ +128	-07	-07	BLUE. V MIDDLE PIN	
	10	PIN	-127 ~ +128	-29	-29	BLUE. V PIN	
	11	SBOW	-127 ~ +128	10	10	BLUE. V SUB BOW	
	12	WAVE	-127 ~ +128	-40	-40	BLUE. V WAVE	
	13	4PIN	-127 ~ +128	15	15	BLUE. V 4th PIN	

#### MCD

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
MCD	00	MHUE	0 ~ 31	17	13	SUB HUE OF MAIN PICTURE	TDA9141

#### SCD

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
SCD	01	YDLY	0 ~ 15	01	01	Y DELAY	TDA9143

#### RGB

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
RGB	00	SHUE	0 ~ 31	28	16	SUB HUE OF SUB PICTURE	TDA4780
	01	SCOL	0 ~ 15	10	11	SUB COLOR	
	02	SBRT	0 ~ 63	21	10	SUB BRIGHTNESS	
	03	RAMP	0 ~ 63	31	31	RED GAIN	
	04	GAMP	0 ~ 63	31	31	GREEN GAIN	
	05	BAMP	0 ~ 63	31	48	BLUE GAIN	
	06	RCUT	0 ~ 63	31	31	RED LEVEL REFERENCE	
	07	GCUT	0 ~ 63	45	31	GREEN LEVEL REFERENCE	
	08	BCUT	0 ~ 63	31	48	BLUE LEVEL REFERENCE	
	09	PDL	0 ~ 63	30	20	PEAK DRIVE LIMIT	
	10	GNMA	0 ~ 63	40	40	GAMMA	
	11	ADBL	0 / 1	00	00	ADAPTIVE BLACK	
	12	RELC	0 / 1	01	01	RELATIVE TO CUT-OFF	
	13	TCPL	0 / 1	01	01	TIME CONSTANT PEAK DRIVE LIMITER	

### PIP

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
PIP	00	AXIS	0 / 1	01	01	RGB AXIS	SDA9188-3X
	01	RDV	0 ~ 15	08	08	V READ DELAY	
	02	RDH	0 ~ 63	16	16	H READ DELAY	
	03	FRY	0 ~ 15	04	04	BRIGHTNESS OF THE BORDER FRAME	
	04	9V50	0 ~ 7	03	03	MULTI P IN P V 50Hz	
	05	9H50	0 ~ 7	03	03	MULTI P IN P H 50Hz	
	06	9V60	0 ~ 7	03	03	MULTI P IN P V 60Hz	
	07	9H60	0 ~ 7	03	03	MULTI P IN P H 60Hz	

### TXT

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
TXT	00	BOXP	0 ~ 15	00	00		TPU3040
	01	TXH	0 ~ 255	05	05	H START POSITION	
	02	TXV	0 ~ 63	44	44	V START POSITION	
	03	VSP	0 ~ 255	59	59	V STOP POSITION	
	04	BSP	0 ~ 255	61	61	BLANKING STOP	
	05	BST	0 ~ 255	53	53	BLANKING START	
	06	QSF	0 ~ 31	01	01	ACQUISITION SOFT SLICER	
	07	A7F	0 ~ 255	10	10	VALUE OF ADDRESS 007FH	
	08	QDT	0 ~ 63	13	13	ACQUISITION DATA SLICER	
	09	CST	0 ~ 255	00	00	CLAMPING START	
	10	CSP	0 ~ 255	80	80	CLAMPING STOP	
	11	LMT	0 / 1	00	00	LIMIT SLICER ADAPTION SWITCH	
	12	GMX	0 ~ 255	31	31	GAIN MAX	
	13	FMX	0 ~ 255	32	31	FILTER MAX	

### AP

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
AP	00	TVER	0 ~ 3	03	03	TPU VERSION (TC20=3)	MSP3410
	01	FAW	0 ~ 255	10	10	NICAM FAW THRESHOLD	
	02	CTM	0 ~ 255	08	08	NICAM ERROR BIT THRESHOLD (MONO->NICAM)	
	03	CTN	0 ~ 255	80	80	NICAM ERROR BIT THRESHOLD (NICAM->MONO)	
	04	WGO	0 ~ 255	10	10	WEST GERMAN STEREO LOW THRESHOLD	
	05	WGS	0 ~ 255	21	21	WEST GERMAN STEREO HIGH THRESHOLD	
	06	WGT	0 ~ 255	80	80	WEST GERMAN STEREO LOW 2 THRESHOLD	
	07	WGB	0 ~ 255	234	234	WEST GERMAN STEREO HIGH 2 THRESH	
	08	ACG	0 / 1	01	01	AGC AUTO / CONSTANT SWITCH	
	09	CDB	0 ~ 63	40	40	AGC GAIN VALUE AT CONSTANT MODE	
	10	FMP	0 ~ 127	34	34	FM MONO PRESCALE	
	11	WGP	0 ~ 127	60	60	WEST GERMAN STEREO PRESCALE	
	12	INP	0 ~ 127	127	127	1 NICAM PRESCALE	
	13	CRM	0 / 1	00	00	CARRIER MUTE FUNCTION	
	14	ACO	0 / 1	01	01	AUDIO CLOCK OUT OFF/ON	

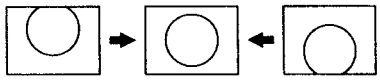

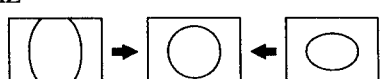
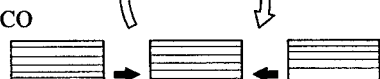
### CPU

	Item number	Adjustment item	Data range	Standard data	Initial data	Note	Device
CPU	00	WAC	0 ~ 15	01	01	WEST GERMAN STEREO JUDGE CONSTANT	CXP5400
	01	OSH	0 ~ 63	11	13	OSD H POSITION	
	02	ODL	0 ~ 256	15	15	POWER ON DELAY	
	03	WIDE	0 / 1	00	00	RELAY FOR WIDE MODEL	
						0 : 4 : 3 1 : 16 : 9	
	04	TWIN	0 / 1	00	00	0 : Sub V FIELD PROCESSING	
						1 : Sub V FRAM PROCESSING	
	05	DSPC	0 / 1	01	01	0 : ENABLE RECEIVE OF CHANNEL	
						IDENTICAL TO TWIN PICTURE	
						1 : DISABLE RECEIVE OF CHANNEL	
						IDENTICAL TO TWIN PICTURE	
	06	SFTE	0 / 1	*00	01	SIFT ENABLE	
	07	SFTF	0 / 1	00	00	SIFT CHECK FACTORY	
	08	3 BCN	0 ~ 255	10	10		

\* After registration adjustment is completed, set the initial value to "01".

01 : As a countermeasure against CRT image burnout, picture slightly shifts left and right (every 2 hours).

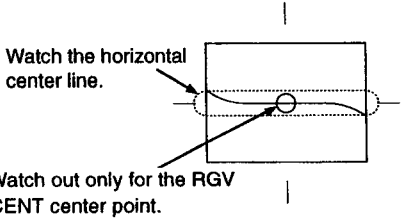
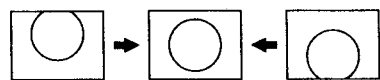
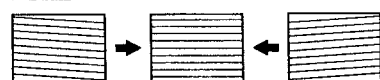
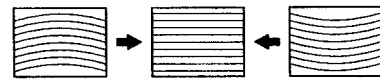
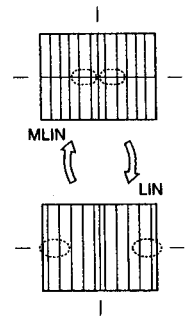
00 : No shift of picture (adjustment mode)

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p><b>CONVERGENCE ADJUSTMENT</b></p> <ul style="list-style-type: none"> <li>When replacing the deflection yoke, always perform "DEFLECTION YOKE TILT ADJUSTMENT" before adjusting the convergence.</li> </ul> <p>Adjustment procedure</p> <pre> graph TD     A[VSP MAIN] --&gt; B[R GH (SUB), R GV (SUB)]     B --&gt; C[R RH (SUB), R RV (SUB)]     C --&gt; D[R BH (SUB), R BV (SUB)]     B --&gt; A   </pre> <ul style="list-style-type: none"> <li><b>GREEN REGISTRATION ADJUSTMENT</b> <ul style="list-style-type: none"> <li>V-SHIFT adjustment</li> <li>V-LINEARITY adjustment</li> <li>V-SIZE, V-CORRECTION adjustment While tracking, adjust so that the lattice intervals for VSIZ and VSCO are equal.</li> </ul> </li> </ul>	<p>Monoscope pattern or Crosshatch pattern</p>		<p>&lt;VSP MENU&gt; VSP VPOS</p> <p>VSP VLIN</p> <p>VSP VSIZ VSP VSCO</p>	<p>VPOS</p>  <p>VLIN</p>  <p>VSIZ</p>  <p>VSCO</p> 

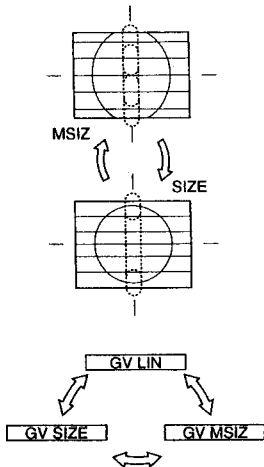
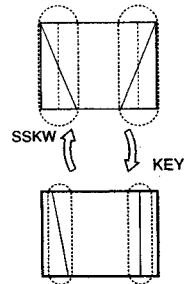
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<ul style="list-style-type: none"> <li>• H-SHIFT adjustment</li> </ul>			VSP HPOS	<p>HPOS</p>
<ul style="list-style-type: none"> <li>• H-SIZE adjustment Finely adjust with SUB MSIZE.</li> </ul>			VSP HSIZ	<p>HSIZ</p>
<ul style="list-style-type: none"> <li>• PIN-AMP adjustment Finely adjust with SUB MPIN.</li> </ul>			VSP HPIN	<p>HPIN</p>
<ul style="list-style-type: none"> <li>• UPPER/LOWER-CORNER PIN adjustment Correct the screen top and bottom section line bow. However, if this adjustment is overdone, distortion may occur with the PIN-AMP adjustment that can not be adjusted away.</li> </ul>			VSP UPCP VSP LOCP	<p>UPCP</p> <p>LOCP</p>
<ul style="list-style-type: none"> <li>• V-ANGLE, V-BOW adjustment Correct the tilt and bow of the vertical line at the center of the screen.</li> </ul>			VSP HSKE VSP HBOW	<p>HSKE</p> <p>HBOW</p>
<ul style="list-style-type: none"> <li>• TILT adjustment Adjust to eliminate the tilt of one of the two vertical lines at both ends of the screen.</li> </ul>			VSP HKEY	<p>HKEY</p>

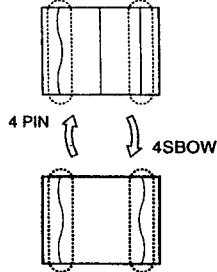
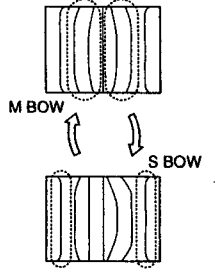
ADJUSTMENT ITEM AND PROCEDURE								EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<b>CONVERGENCE SUB ADJUSTMENT</b> Adjustment      O : Yes    - : No											
Display	Adjustment item	Adjustment type									
		RGH	RGV	RRH	RRV	RBH	RBV				
BSEL	COL SELECT	-	-	-	-	O	-				
CENT	CENT	O	O	O	O	O	O				
SKEW	SKEW	O	O	O	O	O	O				
BOW	BOW	O	O	O	O	O	O				
4BOW	4TH BOW	O	-	O	-	O	-				
SIZE	SIZE	O	O	O	O	O	O				
LIN	LIN	O	O	O	O	O	O				
MSIZ	MID SIZE	O	O	O	O	O	O				
MLIN	MID LIN	O	O	O	-	O	-				
MKEY	MID KEY	-	O	-	O	-	O				
KEY	KEY	O	O	O	O	O	O				
SSKW	SUB SKEW	O	O	O	O	O	O				
MPIN	MID PIN	O	O	O	O	O	O				
PIN	PIN	O	O	O	O	O	O				
SBOW	SUB BOW	O	O	O	O	O	O				
WAVE	WAVE	-	O	-	O	-	O				
MBOW	MID BOW	O	-	O	-	O	-				
4PIN	4TH PIN	O	O	O	O	O	O				
4SBOW	4TH SUB BOW	O	-	O	-	O	-				

[illegible]

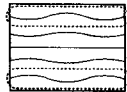

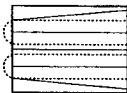
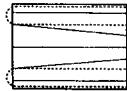
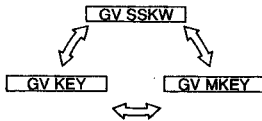
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p><b>SCREEN CENTER SECTION GREEN HORIZONTAL LINE ADJUSTMENT</b></p> <p>1. Finely adjust the center position of the vertical line at the center of the screen with RGV CENT.</p> <p>2. Correct the tilt and bow of the horizontal line at the center of the screen with RGV SKEW and RGV BOW.</p>			<p>&lt;RGV MENU&gt;</p> <p>RGV CENT</p> <p>Watch the horizontal center line.</p> <p>Watch out only for the RGV CENT center point.</p> <p>RGV CENT</p> <p>RGV SKEW</p> <p>RGV BOW</p>	   
<p><b>GREEN SIZE AND LINEARITY ADJUSTMENT</b></p> <p>1. Balance the sizes at both sides of the center section of the screen with RGH MLIN.</p> <p>2. Balance the sizes on both end sections of the screen with RGH LIN.</p> <p>3. While tracking, adjust with RGH MLIN and RGH LIN so that the sizes of the horizontal line at the center of the screen are symmetrical left and right.</p>			<p>&lt;RGH MENU&gt;</p> <p>RGH MLIN</p> <p>RGH LIN</p>	

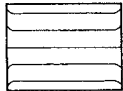
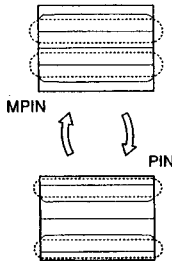
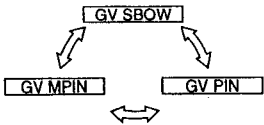
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p><b>GREEN HORIZONTAL SIZE ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Adjust with RGH MSIZE so that the sizes of both edges and of both sides of the center section of the screen are equal.</li> <li>2. Adjust with RGH SIZE so that the horizontal sizes of both edges and of both sides of the center section of the screen are equal.</li> <li>3. While tracking, adjust with RGH MSIZ and RGH SIZE so that the lattice intervals for the horizontal line section of the center section of the screen are equal and so that the horizontal size is the prescribed value.</li> <li>4. If M LIN is changed when the RGH MSIZ and RGH SIZE adjustment is complete, adjust again while tracking.</li> </ol> <p>● With just the H SIZE adjustment in MAIN, if there is no need to adjust RGH SIZE in SUB this can save power.</p>			<p>&lt;RGH MENU&gt; RGH MSIZ  RGH SIZE</p>	
<p><b>GREEN VERTICAL LINEARITY ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Adjust RGV LIN so that the vertical lines at the top and bottom of the screen are symmetrical.</li> </ol>			<p>&lt;RGV MENU&gt; RGV LIN</p>	

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p><b>GREEN VERTICAL SIZE ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Adjust with RGV MSIZE so that the sizes for the top and bottom sections of the screen and for both sides of the center section of the screen are equal.</li> <li>2. Set the vertical size to the prescribed value with RGV SIZE.</li> <li>3. Adjust RGV MSIZ and RGV SIZE watching the vertical line at the center section of the screen.</li> <li>4. While tracking, adjust with RGV MSIZ and RGV SIZE so that the lattice intervals for the vertical line section of the center section of the screen are equal and so that the vertical size is the regulation value.</li> <li>5. If RGV LIN is out of place when the RGV MSIZ and RGV SIZE adjustment is complete, adjust again while tracking.</li> </ol> <p>● If there is no need to adjust RGV SIZE in SUB with just the V SIZE adjustment in MAIN, this can save power.</p>			<p>&lt;RGV MENU&gt; RGV MSIZ</p> <p>RGV SIZE</p>	
<p><b>GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Adjust with RGH SSKW so that the tilt of the vertical lines at both edges of the screen is symmetrical left and right.</li> <li>2. Adjust with RGH KEY so that there is no tilt in the vertical lines at both edges of the screen.</li> <li>3. If there is a tilt on either the left or right after the RGH KEY adjustment, adjust while tracking.</li> </ol>			<p>&lt;RGV MENU&gt; RGH SSKW</p> <p>RGH KEY</p>	

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p><b>GREEN HORIZONTAL QUATERNARY ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Correct the quaternary distortion with RGH 4PIN.</li> <li>2. While balancing, correct the quaternary distortion of both end sections of the screen with RGH 4SBOW.</li> <li>3. While tracking, adjust with RGH 4PIN and RGH 4SBOW.</li> </ol>			<p>&lt;RGH MENU&gt;</p> <p>RGH 4PIN</p> <p>RGH 4SBOW</p>	
<p><b>GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Adjust with RGH MBOW so that the pin asymmetry at both sides of the center section of screen is symmetrical.</li> <li>2. Adjust with RGH SBOW so that the bow at both end sections of the screen is symmetrical left and right.</li> <li>3. While tracking, adjust with RGH MBOW and RGH SBOW so that the bow of vertical lines on the entire screen is symmetrical left and right.</li> </ol>			<p>&lt;RGH MENU&gt;</p> <p>RGH MBOW</p> <p>RGH SBOW</p>	

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<b>GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT</b> <ol style="list-style-type: none"> <li>1. Adjust the pin distortion at both sides of the center section of the screen with RGH MPIN.</li> <li>2. Adjust the pin distortion at both end sections of the screen with RGH PIN.</li> <li>3. While tracking, adjust with RGH MPIN and RGH PIN so that the PIN of vertical lines on the entire screen have no bowing.</li> <li>4. If there is asymmetrical pin distortion after the RGH MPIN and RGH PIN adjustments, adjust with RGH MBOW and RGH SBOW while tracking.</li> </ol> <p>● With just the PIN AMP adjustment in MAIN, if there is no need to adjust RGV PIN in SUB, this can save power.</p>			<p>&lt;RGH MENU&gt;</p> <p>RGH MPIN</p> <p>RGH PIN</p> <p>RGH MBOW</p> <p>RGH SBOW</p>	
<b>GREEN VERTICAL WAVE (TERTIARY DISTORTION) ADJUSTMENT</b> <ol style="list-style-type: none"> <li>1. Take the screen top and bottom horizontal lines with RGV WAVE and find the secondary and quaternary waveform.</li> <li>2. There is KEY distortion after the RGV WAVE adjustment, so adjust with GV WAVE and RGV KEY while tracking.</li> </ol>			<p>&lt;RGV MENU&gt;</p> <p>RGV WAVE</p> <p>RGV KEY</p>	

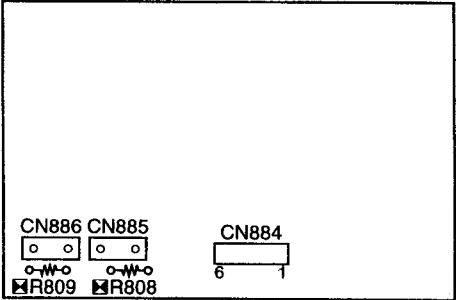
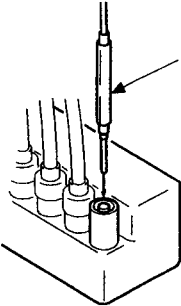
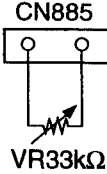
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<b>GREEN VERTICAL QUATERNARY DISTORTION</b> <b>ADJUSTMENT</b> <ol style="list-style-type: none"> <li>1. Correct the quaternary distortion of the horizontal lines at the top and bottom sections of the screen with RGV 4PIN.</li> <li>1) Since there is no 4SBO for vertical correction, there will be a slight imbalance, but adjust to eliminate the distortion from the horizontal line at either the top or the bottom of the screen.</li> <li>2) In many cases, the horizontal lines at the top and bottom sections of the screen are not straight lines after the adjustment. As long as the secondary distortion is mild enough that it can be corrected with the PIN adjustment, this is OK.</li> </ol>			<RGV MENU>  RGV 4PIN	RGV 4PIN  
<b>GREEN VERTICAL TRAPEZOIDAL DISTORTION</b> <b>ADJUSTMENT</b> <ol style="list-style-type: none"> <li>1. Adjust with RGV SSKW so that the tilt of the horizontal lines at the top and bottom sections of the screen is symmetrical about the center position horizontal line.</li> <li>2. Adjust with RGV MKEY so that there is no tilt for the line sections at both sides of the horizontal lines at the center section of the stream.</li> <li>3. Adjust with RGV KEY so that there is no tilt for the horizontal lines at the top and bottom sections of the screen.</li> <li>4. While tracking, adjust with RGV MKEY and RGV KEY so that there is no tilt for the horizontal lines on the entire screen.</li> <li>5. If the tilt is unbalanced after the RGV MKEY and RGV KEY adjustment, adjust again with RGV SSKW.</li> </ol>			<RGV MENU> RGV SSKW  RGV MKEY  RGV KEY   RGV SSKW	RGV SSKW     MKEY      KEY   

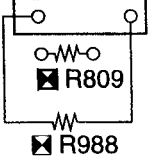
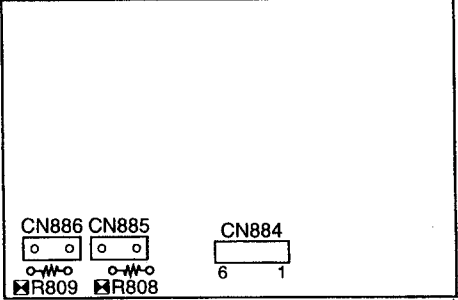
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<b>GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (SECONDARY DISTORTION) ADJUSTMENT</b> 1. Correct the asymmetrical pin distortion at the top and bottom sections of the screen with RGV SBOW.			<RGV MENU>  RGV SBOW	RGV SBOW 
<b>GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT</b> 1. Adjust the pin distortion for both side sections and the center of the screen with RGV MPIN. 2. Adjust with RGV PIN so that the horizontal lines at the top and bottom sections of the screen are straight lines. 3. Adjust with RGV MPIN and RGV PIN so that there is no curve in the horizontal lines on the entire screen.			<RGV MENU>  RGV MPIN RGV PIN	
4. After the adjustments in Items 1-3, adjust the tracking with RGV SBOW, RGV MPIN, and RGV PIN.			RGV SBOW	

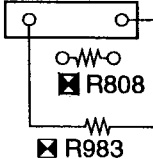


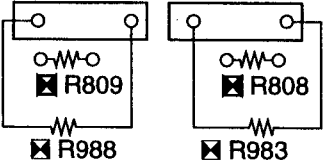
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<b>GREEN AND RED REGISTRATION ADJUSTMENT (RRH, RRV)</b> 1. Receive a PAL cross-hatch signal. 2. Adjust so that the red lines lay on the green lines. Adjust with the same procedure as the GREEN SUB adjustment.  Notes: 1. The main correction is not carried out during red registration adjustment. 2. Beware. The green adjustment items can be changed by mistake. 3. Unlike for green, adjust within the range -127 ~ +128.	PAL Cross-hatch pattern			
<b>GREEN AND BLUE REGISTRATION ADJUSTMENT (RBH, RBV)</b> 1. Receive a PAL cross-hatch signal. 2. Adjust so that the blue and green lines are on top of each other.  Notes : 1. The main correction is not carried out during RED registration adjustment. 2. Beware. The GREEN and RED adjustment items can be changed by mistake.	PAL Cross-hatch pattern			

[illegible]

# SECTION 4 SAFETY RELATED ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<div> <b>HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (⊠ RESISTOR)</b> </div> <p>When replacing the parts marked <input checked="" type="checkbox"/> on the right, check the HV hold down and adjust.</p> <ol style="list-style-type: none"> <li>Remove the cap for the unconnected pin in the high-voltage block and connect a Static Voltmeter.</li> <li>Input 240 VAC power.</li> <li>Receive the Dot signal and set the PICTURE and BRIGHTNESS settings to their minimums.</li> <li>Connect a 33 k variable resistor across the E board CN885 connector (with the variable resistor set to its maximum).</li> </ol>	<p>Static Voltmeter</p> <p>Dot pattern</p>	<p><input checked="" type="checkbox"/> marked parts C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R883, R954, R955, R984, R988, R991, R995, R996, T801(FBT), T803 ..... E board HV Block HV Block</p>	<p><input checked="" type="checkbox"/> R809, R988</p> <p>PICTURE ..... minimum BRIGHTNESS ..... minimum</p>	<p>E BOARD – COMPONENT SIDE –</p>   

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p>5. Gradually lower the value of the variable resistor and check that the hold down circuit operates at a Static Voltmeter reading of <math>33.70 \pm 0.80</math> kVDC and that the rasters disappear.</p> <p>6. If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of 34.0kVDC or higher, remove resistor R809 and mount a 16.0 k 1/4W RN at R988. If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of 32.0 kVDC or lower, remove resistor R809 and mount 6.2 k 1/4W RN at R988.</p> <p>7. Check Item 5 again.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p><b>HV REGULATION CIRCUIT CHECK AND ADJUSTMENT</b>  <b>(<input checked="" type="checkbox"/> RESISTOR)</b></p> </div> <p>When replacing the parts marked <input checked="" type="checkbox"/> on the right, check the HV regulation and adjust.</p> <p>1. Remove the cap for the unconnected pin in the high-voltage block and connect a Static Voltmeter.</p> <p>2. Input 240 VAC power.</p> <p>3. Receive the Dot signal and set the PICTURE and BRIGHTNESS settings to their minimums.</p>	<p>Static Voltmeter</p> <p>Dot pattern</p>	<p><input checked="" type="checkbox"/> marked parts  C918, C930, C934,  C980, D920, Q909,  R808, R851, R936,  R939, R942, R944,  R945, R946, R947,  R950, R960, R965,  R967, R971, R975,  R976, R982, R983,  R985, R998  ..... E Board  HV Block  HV Block</p>	<p>R988</p> <p>R988</p> <p><input checked="" type="checkbox"/> R808, R983</p> <p>PICTURE  ..... minimum  BRIGHTNESS  ..... minimum</p>	<p>33.70 <math>\pm</math> 0.80 kVDC</p> <p>34.0 kVDC or higher  16.0 k 1/4W</p> <p>32.0 kVDC or lower  6.2 k 1/4W</p> <div style="text-align: right;"> <p>CN886 (E board)</p>  </div> <p>E BOARD – COMPONENT SIDE –</p> 

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p>4. Check that the Static Voltmeter reading is <math>31.0 \pm 0.5</math> kVDC.</p> <p>5. If the Static Voltmeter reading is 30.4 kVDC or lower, remove resistor R808 and mount 5.6 k 1/4W RN at R983.</p> <p>6. If the Static Voltmeter reading is 31.5 kVDC or higher, remove resistor R808 and mount 8.2 k 1/4W RN at R983.</p> <p>7. If the Static Voltmeter reading is 32.0 kVDC or higher, remove resistor R808 and mount 10.0 k 1/4W RN at R983.</p> <p>8. If any of Items 5, 6 or 7 has been implemented, check Item 4 again.</p>			<p>R983</p> <p>R983</p> <p>R983</p>	<p>31.0 <math>\pm</math>0.5 kVDC</p> <p>30.4 kVDC or lower</p> <p>5.6 k 1/4W</p> <p>31.5 kVDC or higher</p> <p>8.2 k 1/4W</p> <p>32.0 kVDC or higher</p> <p>10.0 k 1/4W</p>  <p>CN885 (E board)</p>
<p><b>HV HOLD DOWN AND HV REGULATOR SIMPLE ADJUSTMENT</b></p> <p>It is normally desirable that the HV hold down and HV regulation checks use a Static-voltmeter. However, sometime one is not available, for example in the field, below is a simple adjustment method.</p> <p>When replacing parts with the  mark, replace both the resistors with the  mark R808 (R983) and R809 (R988) with resistors one rank lower in the E-12 series. Do not replace just one of these resistors. Always replace both with resistors one rank lower.</p>			<p>R808 (R983)</p> <p>R809 (R988)</p>	<p>E board</p>  <p>CN886</p> <p>CN885</p> <p>R809</p> <p>R808</p> <p>R988</p> <p>R983</p>

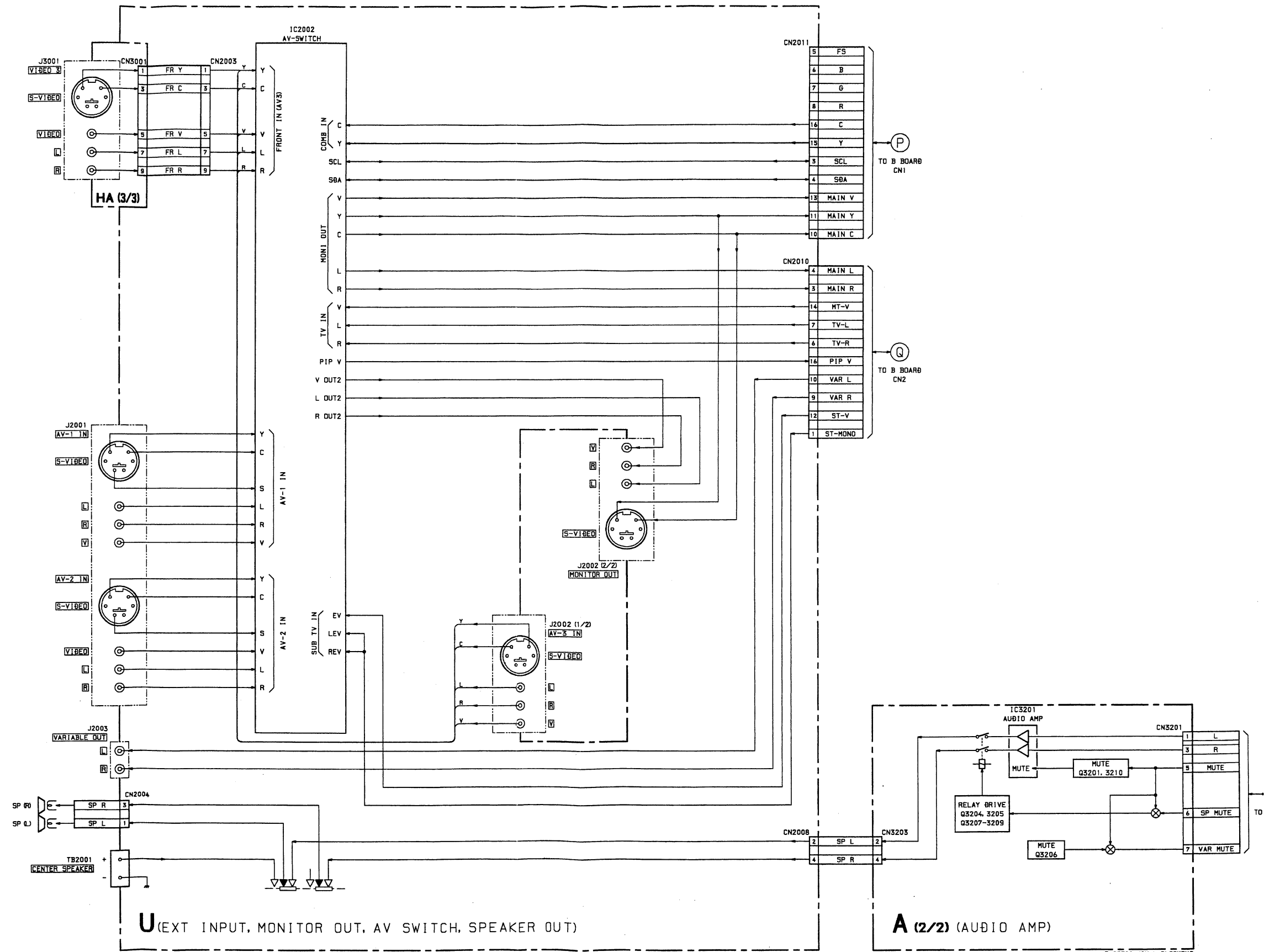
## SECTION 5 ELECTRICAL ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<b>B BOARD ADJUSTMENT</b>				
<b>SUB COLOR (SCOL) ADJUSTMENT</b> 1. Input the PAL Color Bar signal and adjustment the picture control. 2. Set to service mode. 3. Connect an oscilloscope between ⑤ pin of CN201 and ground. 4. Adjust SCOL so that $V_{cy} = V_{Mg} = V_{Bi}$ in the waveform levels. 5. Write the data to memory.  <b>SUB HUE (MHUE,SHUE) ADJUSTMENT</b> 1. Input the NTSC Color Bar signal. 2. Set to service mode. 3. Connect an oscilloscope between ⑤ pin of CN201 and ground. 4. Adjust MHUE so that $V_{cy} = V_{Mg}$ in the waveform levels. 5. Write the data to memory.  (PIP MODE) 1. Input the NTSC Color Bar signal. 2. Select PIP on screen mode and put the set into service mode. 3. Connect an oscilloscope between ⑤ pin of CN201 and ground. 4. Adjust SHUE so that $V_{cy} = V_{Mg}$ in the waveform levels. 5. Write the data to memory.  <b>SUB CONTRAST ADJUSTMENT</b> (PIP MODE) 1. Input the PAL Color Bar signal. 2. Select PIP on screen mode and put the set into service mode. 3. Connect an oscilloscope Q14 emitter on the B(1/3) board and ground. 4. Adjust SCON so that $V_{MAIN-Y} = V_{PIP-Y}$ in the waveform levels. 5. Write the data to memory.	PAL Color Bar pattern	CN201 ⑤ pin (B(2/3) Board)	PICTURE .... 80% RGB SCOL : $V_{cy} = V_{Mg} = V_{Bi}$	  (PIP MODE) (PIP MODE)
	NTSC Color Bar pattern	CN201 ⑤ pin (B(2/3) Board)	MCD MHUE : $V_{cy} = V_{Mg}$	 (PIP MODE) (PIP MODE)
	NTSC Color Bar pattern	CN201 ⑤ pin (B(2/3) Board)	SCD SHUE : $V_{cy} = V_{Mg}$	 (PIP MODE)
	PAL Color Bar pattern	Q14 emitter (B(1/3) Board)	PIP SCON: $V_{MAIN-Y} = V_{PIP-Y}$	

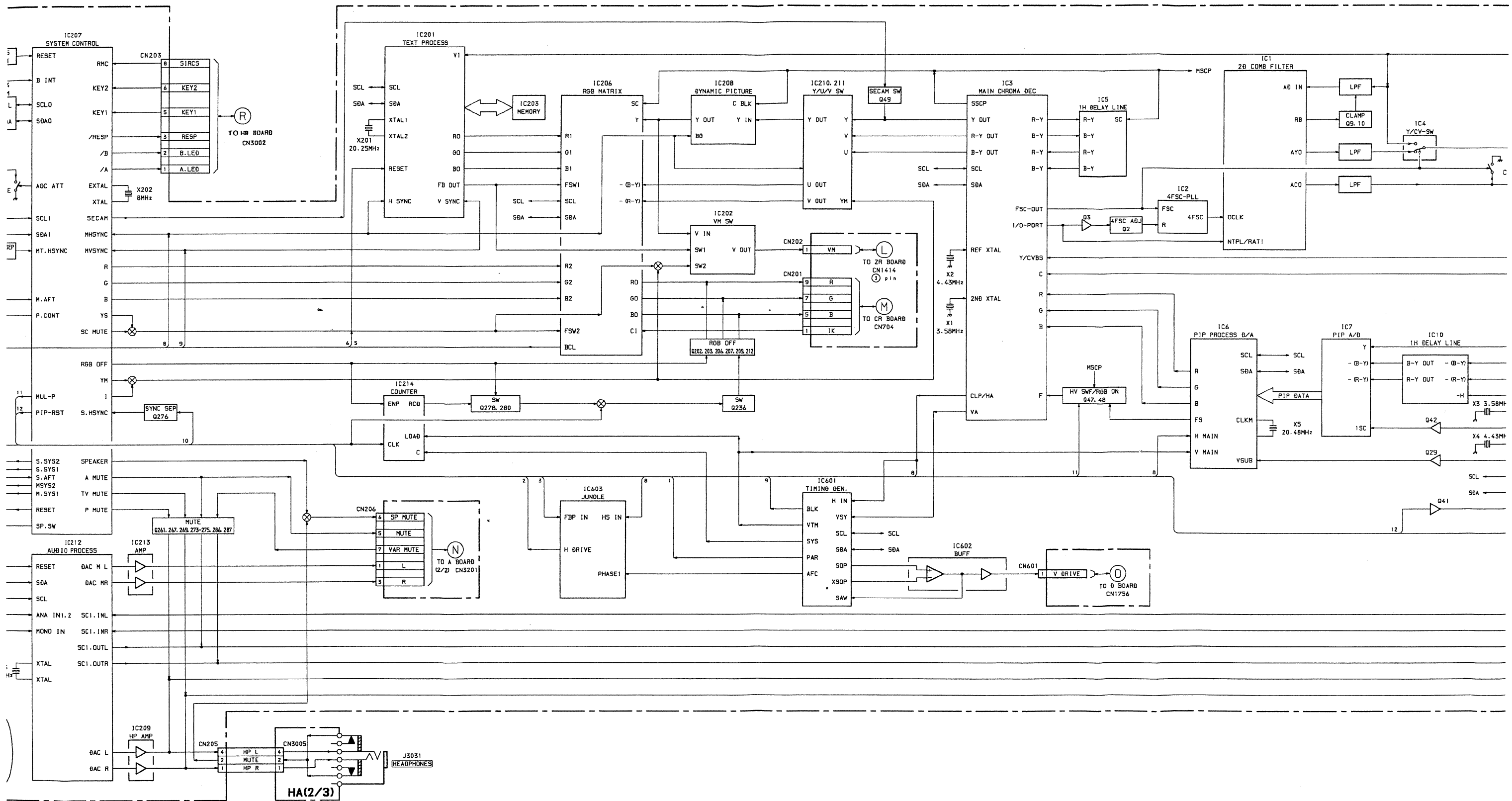
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<b>SUB WHITE BALANCE ADJUSTMENT</b> (PIP MODE) 1. Input Gray Scale signal 20 IRE. 2. Select PIP in screen mode and put the set into service mode. 3. Connect an oscilloscope Q15 emitter on the B(1/3) board and ground. 4. Adjust RV1 so that $V_{main} = V_{pip}$ in the waveform levels. 5. Connect an oscilloscope Q16 emitter on the B(1/3) board and ground. 6. Adjust RV2 so that $V_{main} = V_{pip}$ in the waveform levels.  <b>P IN P POSITION ADJUSTMENT</b> 1. Upon receiving the Monoscope signal. 2. Set service mode and then press the PIP command twice. The P in P positon will then move periodically to four points. Adjust "RDV" and "RDH" on the new screen so that the four points are distributed equally at ; up, down, left and right. 3. Write the data to memory.  <b>TEXT POSITION ADJUSTMENT</b> 1. Receive the RF signal with TEXT. 2. Set to service mode. 3. Set the TEXT in MIX mode and adjust the screen positon with "TXH" and "TXV". 4. Write the data to memory.  <b>OSD POSITION ADJUSTMENT</b> 1. Receive the PAL Color Bar signal. 2. Set to service mode. 3. Adjust "OSH" so that the center line of the signal and the center of the crosshairs of the OSD display match are aligned with each other. 4. Write the data to memory.	Oscilloscope	[ B(1/3) Board ] Q15 emitter (R-Y) Q16 emitter (B-Y) Q35 emitter (PIP-FS)	[ B(1/3) Board ] RV1 (R-Y) RV2 (B-Y)	
	Monoscope pattern		< PIP MENU > RDV RDH	
			< TXT MENU > TXH (H position) TXV (V position)	
	PAL Color Bar pattern		< CPU MENU > OSH	

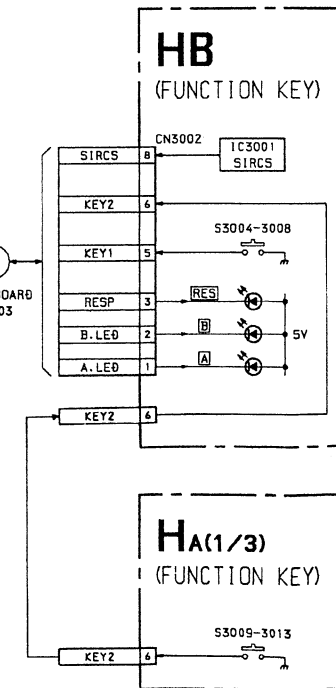
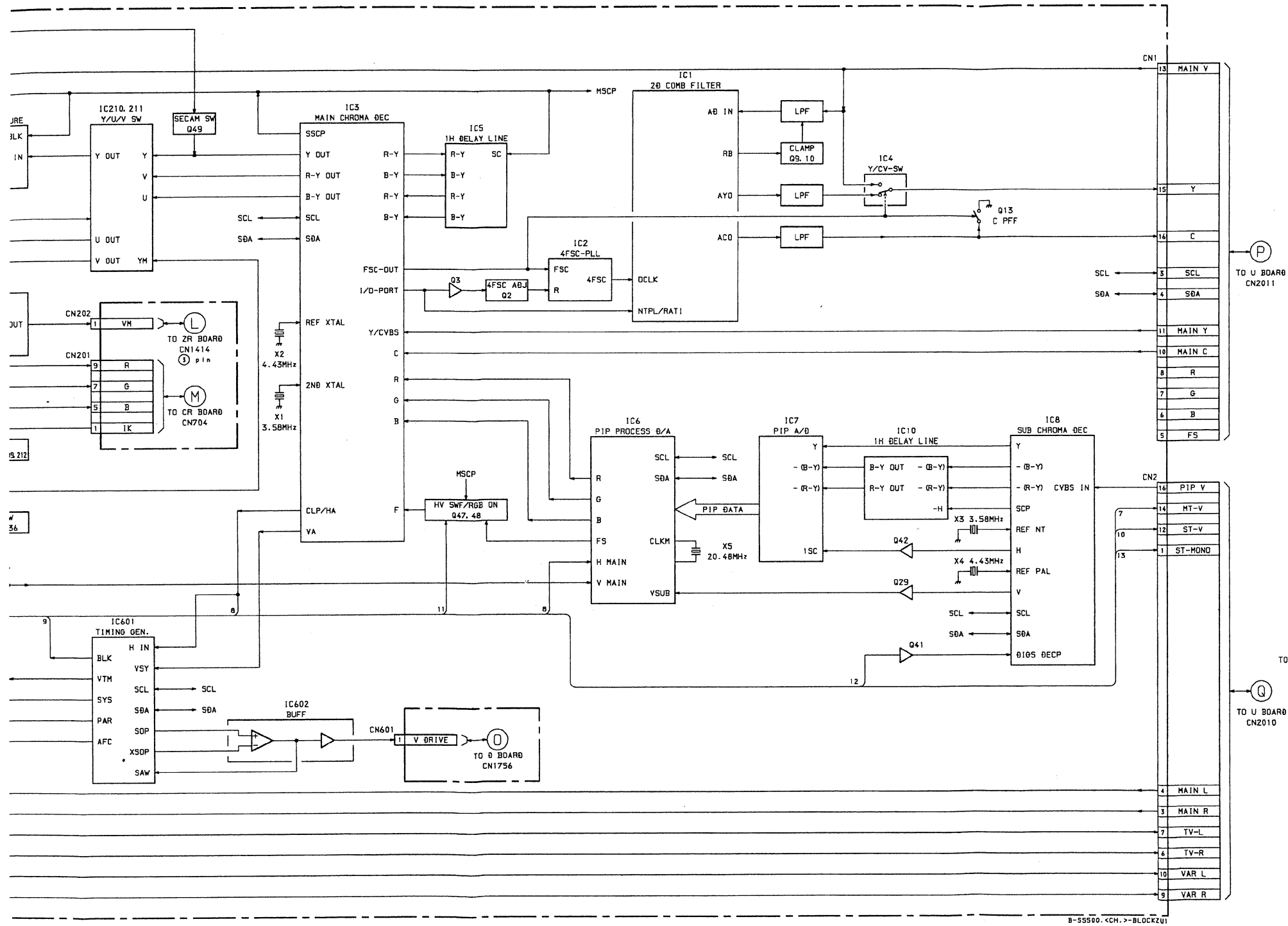
# SECTION 6 DIAGRAMS

6-1. BLOCK DIAGRAM (1)

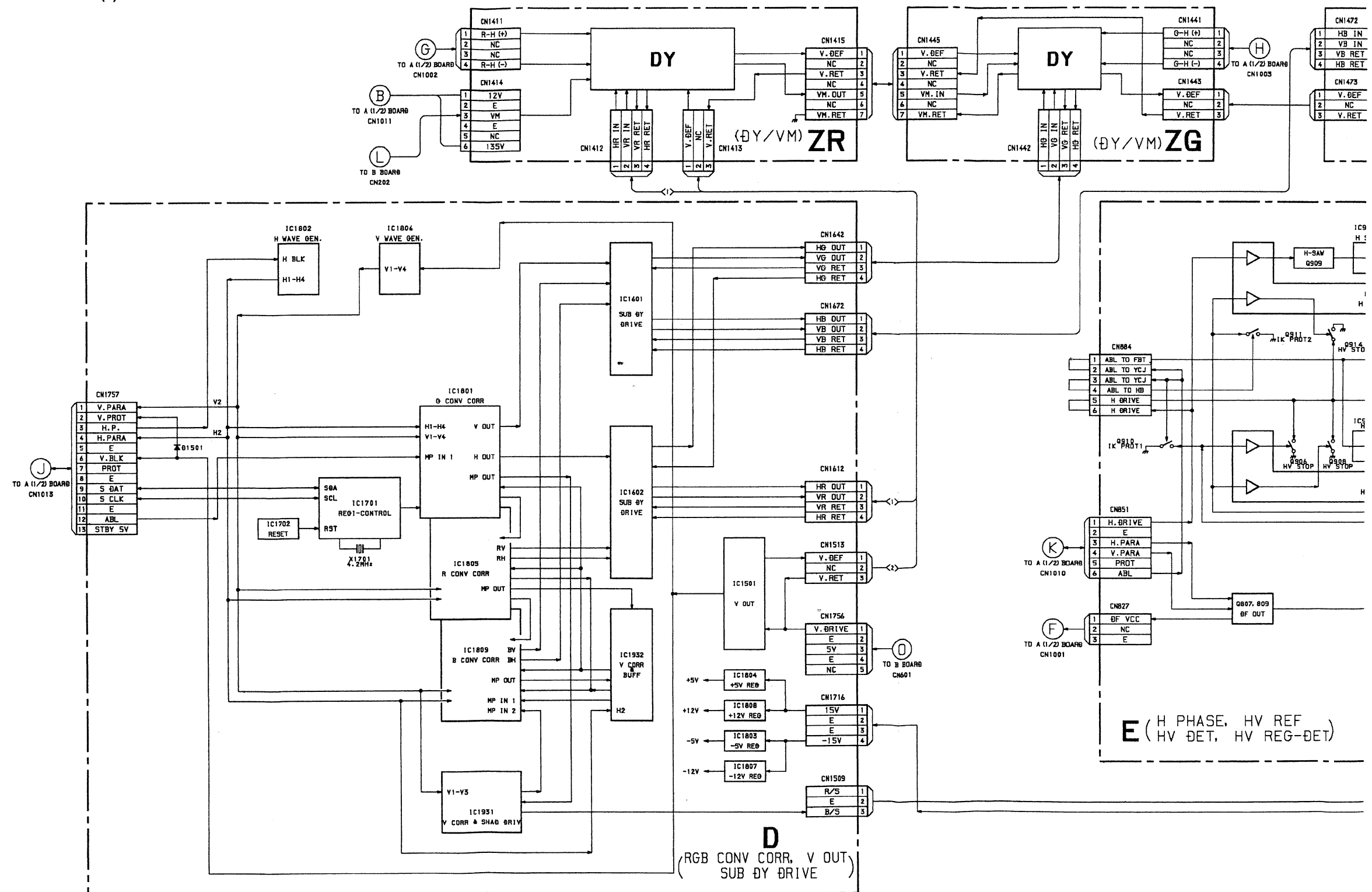


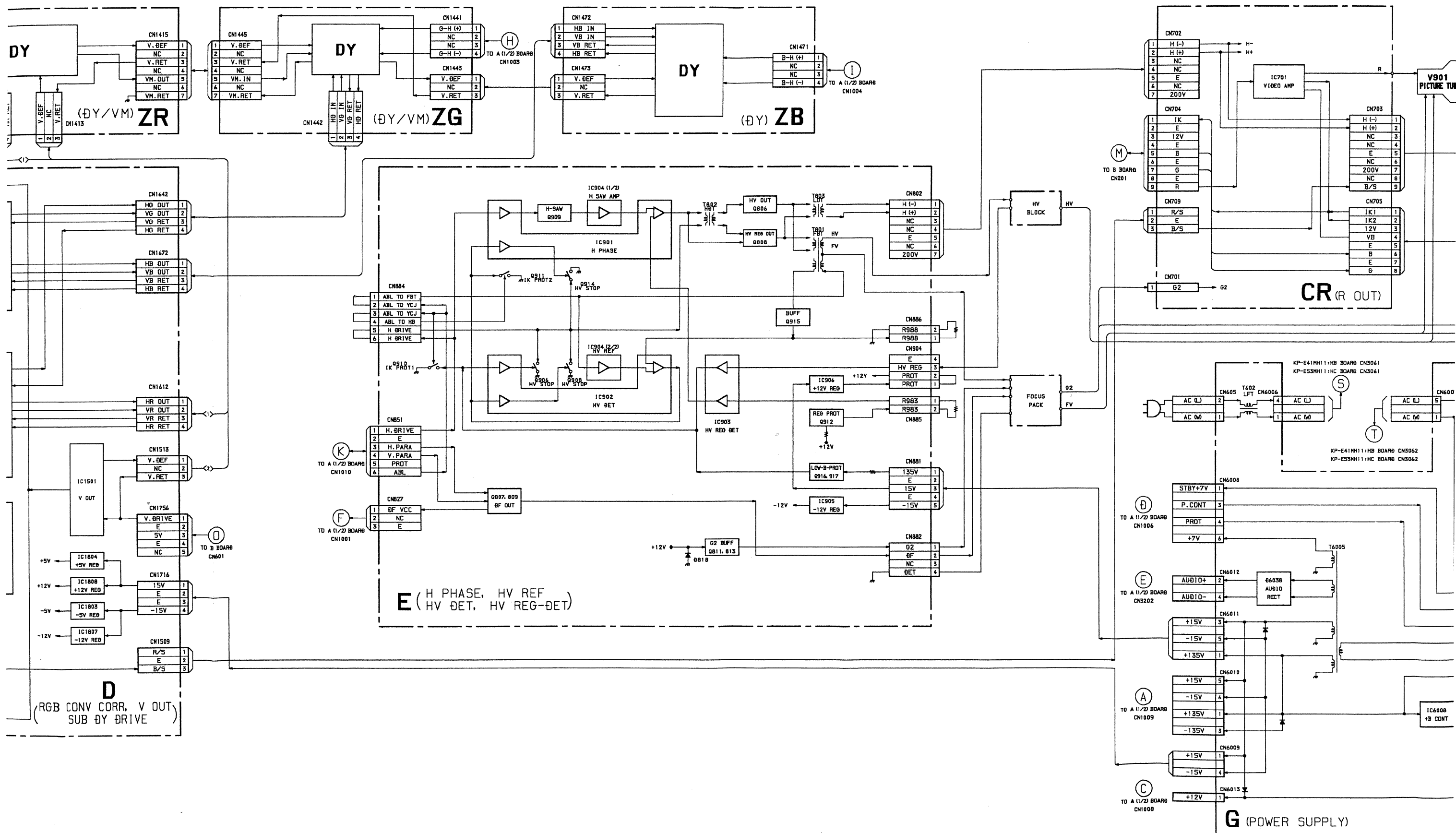




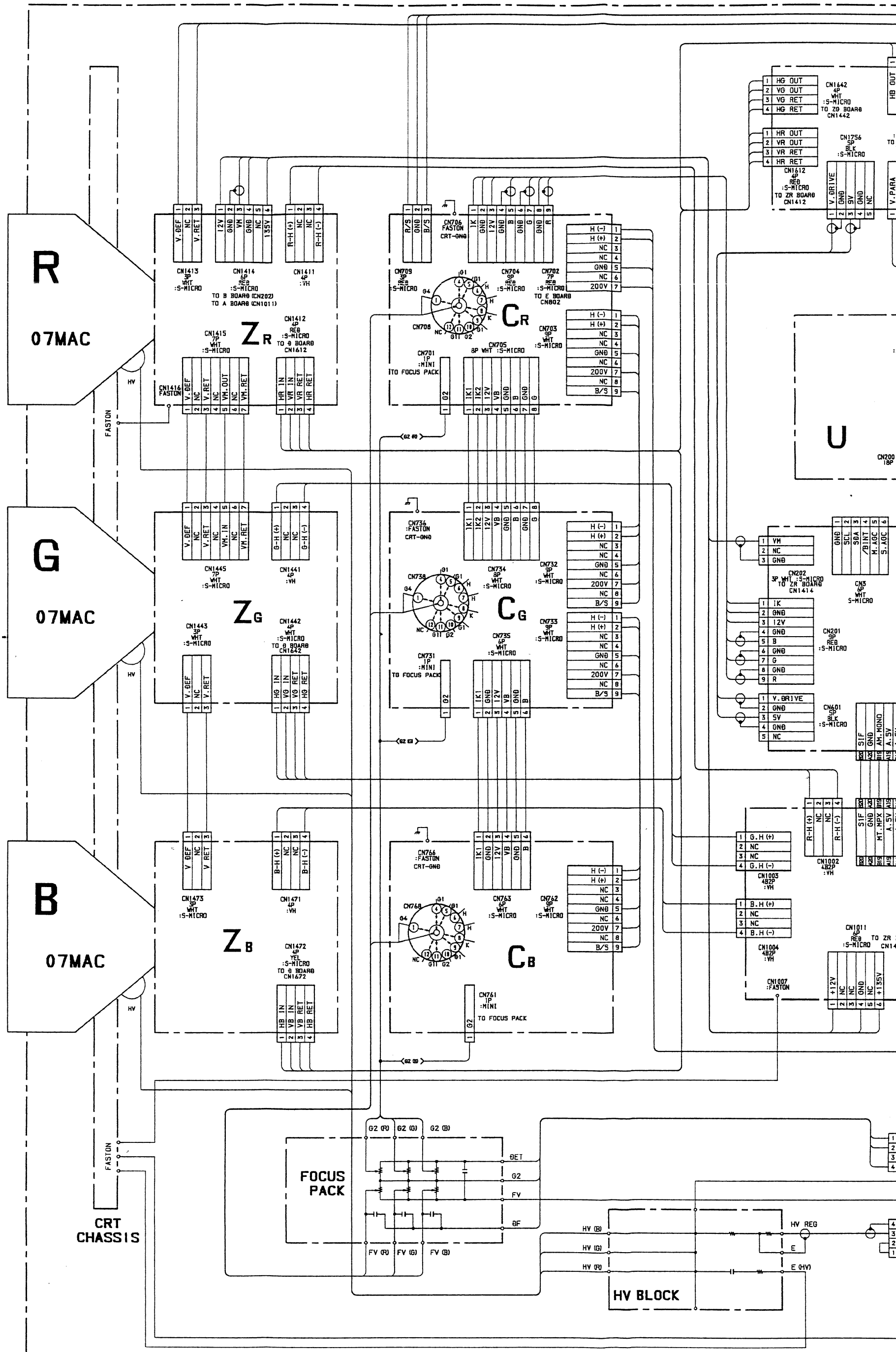


BLOCK DIAGRAM (3)

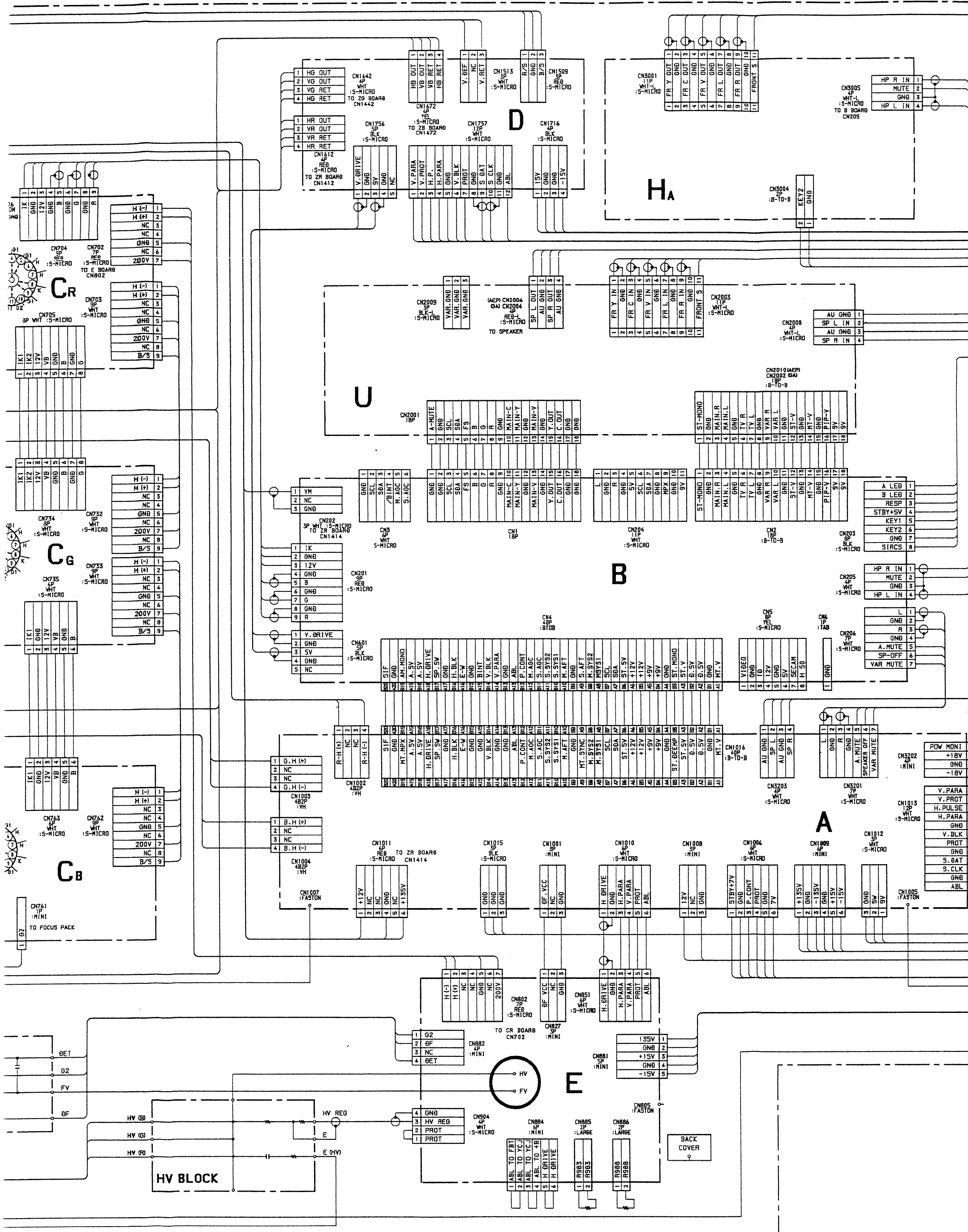


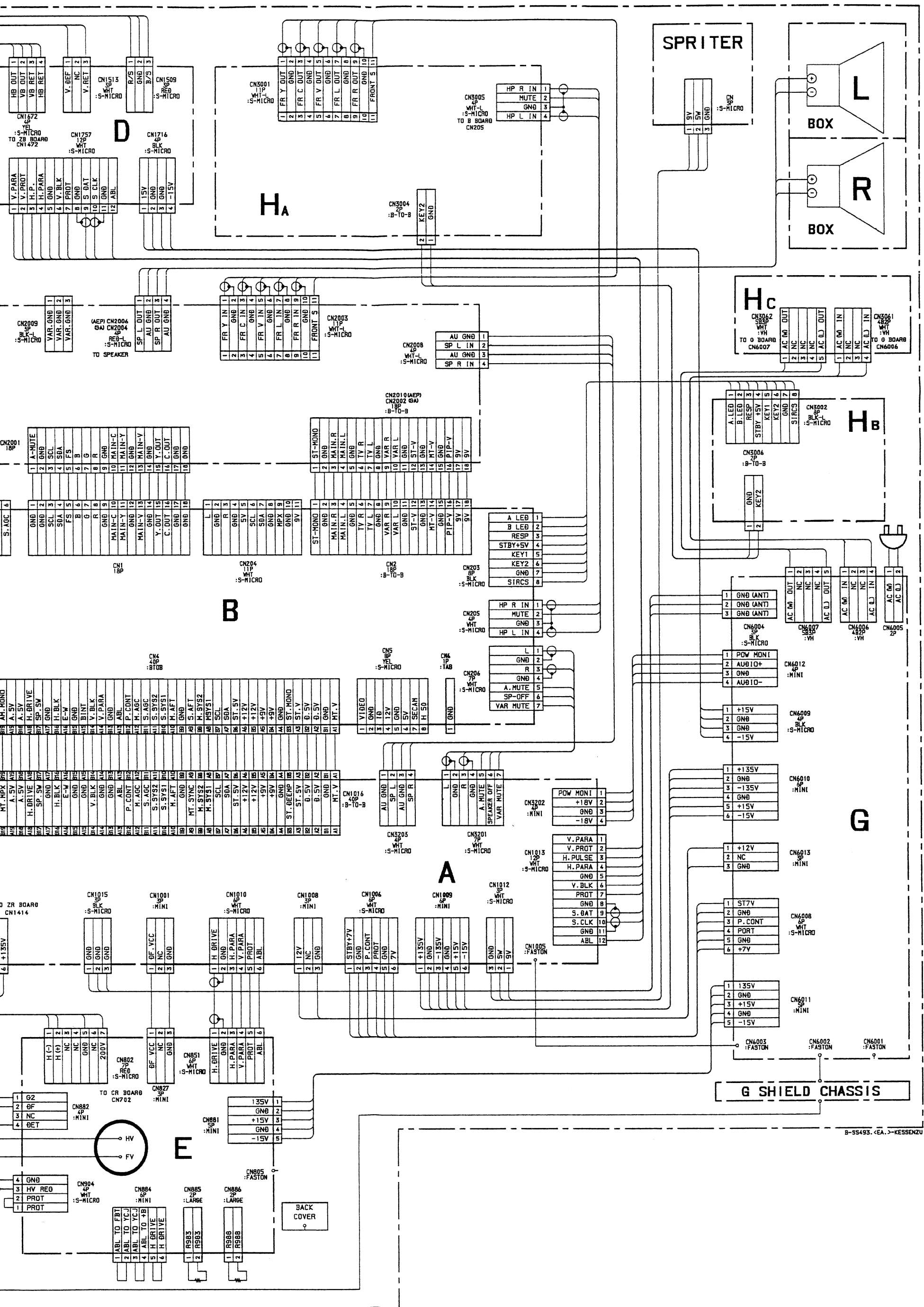










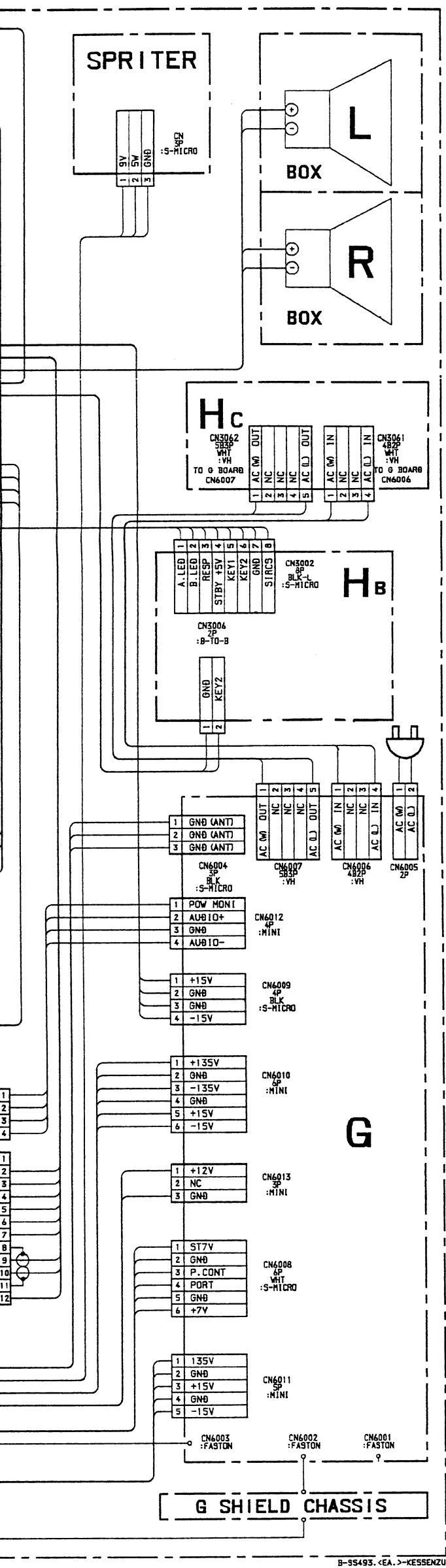


6-3. CIRCUIT

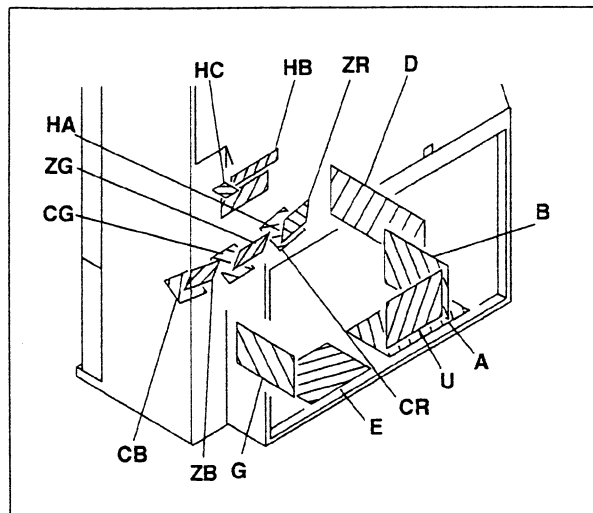
6-4. PRINTING DIAGRAM

- Note:
- Capacitors with values in parentheses are optional.
  - All resistors are in ohms unless otherwise noted.
  - Indication of polarity is as follows.
  - Pitch : 5mm
  - Rating element
  - non-polarized
  - faston
  - internal
  - panel
  - All variable are noted.
  - earth-chassis
  - The components are carefully factored for X-ray radiation.
  - Should replace
  - When replacing indicated. If not identified by (Refer to R800)
  - When replacing

P	
HVBlock	
C818, D804	
Q915, R809	
R883, R954	
R995, R996	
.....E B	
HV Block,	
C918, C930	
R808, R851	
R945, R946	
R967, R971	
R985, R998	
.....E BOAR	



### 6-3. CIRCUIT BOARDS LOCATION



### 6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

- Note:
- Capacitors without voltage indication are all 50.
  - All resistors are in ohms.
  - $k\Omega=1000\Omega$ ,  $M\Omega=1000k\Omega$
  - Indication of resistance, which dose not have one for rating electrical power, is as follows.
- Pitch : 5mm  
Rating electrical power :  $\frac{1}{4}W$  (CHIP :  $\frac{1}{10}W$ )
- : nonflammable resistor.
  - : fusible resistor.
  - $\Delta$  : internal component.
  - : panel designation and adjustment for repair.
  - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
  - : earth-chassis.
  - The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  - Should replacement be required, replace only with the value originally used.
  - When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R808, R809, R983 and R988 adjustment on Page 40 - 42.)
  - When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (  )	Adjustment (  )
HVBlock C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R883, R954, R955, R984, R988, R991, R995, R996, T801(FBT), T803 .....E BOARD	HV HOLD-DOWN (R809, R988)
HV Block, C918, C930, C934, C980, D920, Q909, R808, R851, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R998 .....E BOARD	HV Regulator (R808, R983)

### Terminal name of semiconductors in silk screen printed circuit ( \* )

Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
② Transistor		Collector Base Emitter	
③ Diode		Cathode Anode	
④ Diode		Cathode Anode (NC)	
⑤ Diode		Cathode Anode (NC)	
⑥ Diode		Common Anode Cathode	
⑦ Diode		Common Anode Cathode	
⑧ Diode		Common Anode Anode	
⑨ Diode		Common Anode Anode	
⑩ Diode		Common Cathode Cathode	
⑪ Diode		Common Cathode Cathode	
⑫ Transistor (FET)		Drain Source Gate	
⑬ Transistor (FET)		Drain Source Gate	
⑭ Transistor (FET)		Drain Source Gate	
- Discrete semiconductor			

(Chip semiconductors that are not actually used are included.)

Ver. 1.4

- As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10M $\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- \* : Measurement impossibility.
- : B+ line.
- : B- line.
- (Actual measured value may be different).
- : signal path.
- Circled numbers are waveform references.

#### Reference information

RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RW NONFLAMMABLE WIREWOUND
	: RS NONFLAMMABLE METAL OXIDE
	: RB NONFLAMMABLE CEMENT
	: $\times$ ADJUSTMENT RESISTOR
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE
	: ALB BIPOLAR
	: ALT HIGH TEMPERATURE
	: ALR HIGH RIPPLE

Note: The symbol display is on the component side.

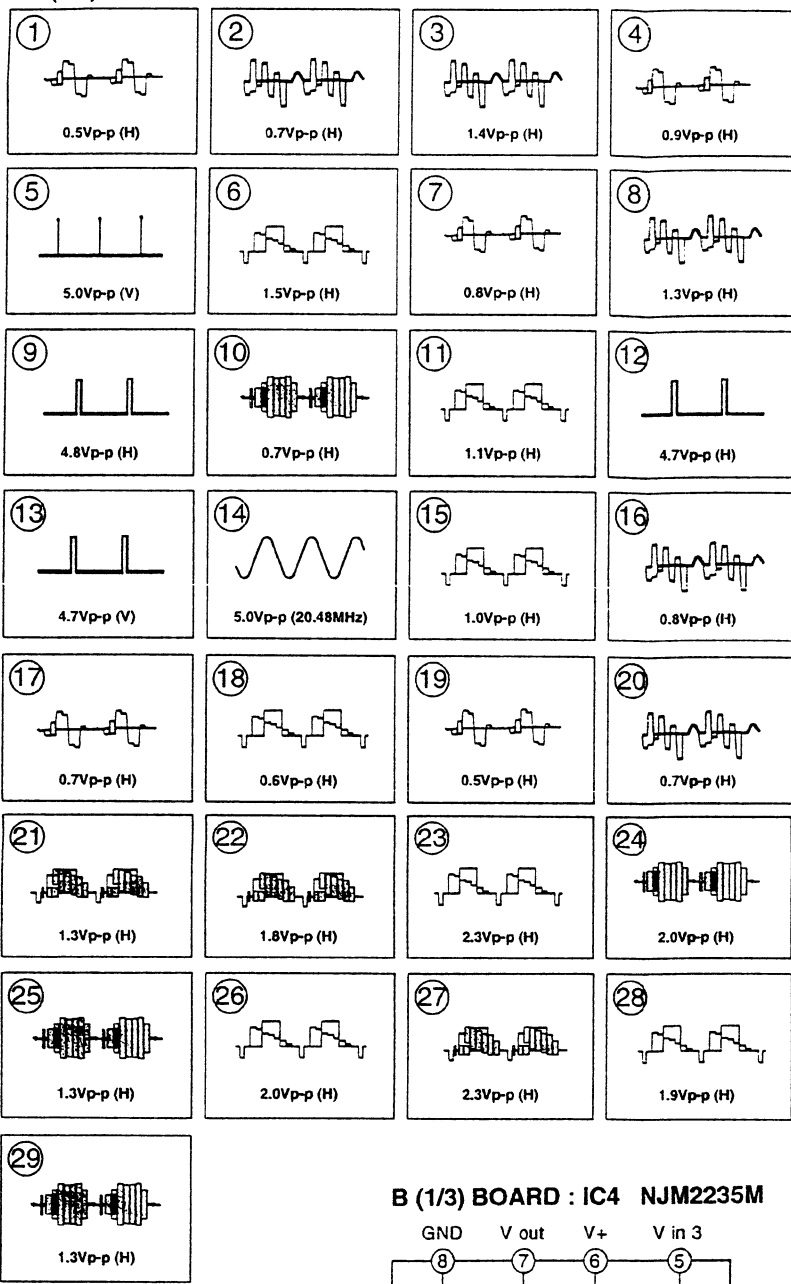
The components identified by shading and mark are critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse. Replace only with fuse of same rating as made.

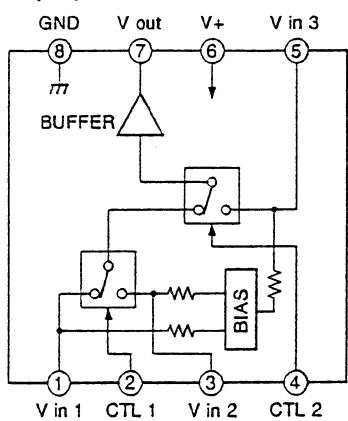
Note: Les composants identifiés par un trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Le symbole indique une fusible à action rapide. Doit être remplacée par une fusible de même valeur, comme maque.

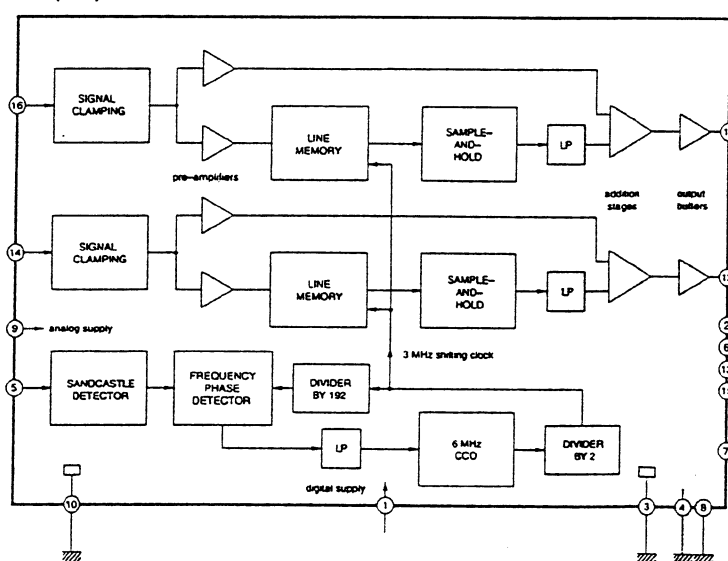
• B (1/3) BOARD WAVEFORMS



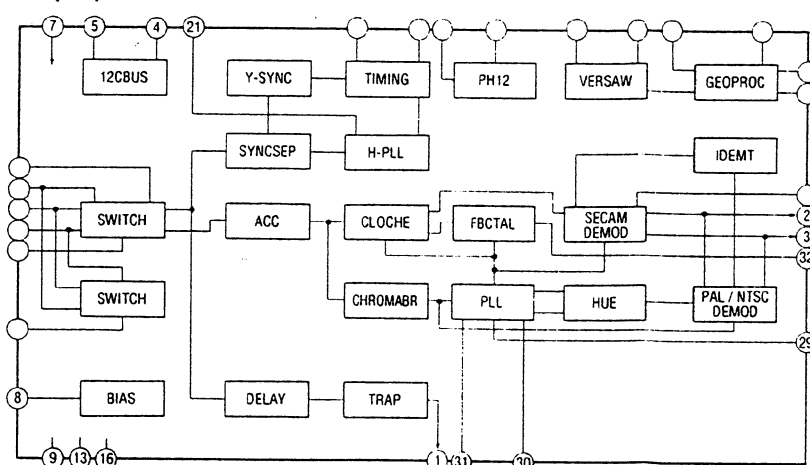
B (1/3) BOARD : IC4 NJM2235M



B (1/3) BOARD : IC10 TDA4665T



B (1/3) BOARD : IC8 TDA9160A



B (1/3) BOARD IC VOLTAGE LIST

IC1	Pin	Voltage	IC7	Pin	Voltage
1	GND		25	0.7	
2	GND		26	1.5	
3	GND		27	1.5	
4	GND		28	5.2	
5	GND		29	4.4	
6	GND		30	1.5	
7	GND		31	1.5	
8	GND		32	0.7	
9	GND		33	1.5	
10	GND		34	1.9	
11	2.4		35	2.0	
12	GND		36	0.9	
13	4.9		37	1.0	
14	2.4		38	0.9	
15	2.4		39	0.9	
16	2.4		40	0.9	
17	4.9		41	0.9	
18	4.9		42	2.8	
19	GND		43	15	
20	0		44	4.8	
21	1.1		45	GND	
22	0.6		46	17	
23	GND		47	2.3	
24	GND		48	18	
25	1.4		49	19	
26	4.9		50	20	
27	2.6		51	21	
28	4.9		52	22	
29	4.9		53	23	
30	GND		54	24	
31	1.3		55	25	
32	3.0		56	26	
33	3.2		57	27	
34	3.2		58	28	
35	GND		59	29	
36	1.1		60	30	
37	4.9		61	31	
38	GND		62	32	
39	1.6		63	33	
40	3.0		64	34	
41	3.2		65	35	
42	3.2		66	36	
43	GND		67	37	
44	GND		68	38	
45	GND		69	39	
46	GND		70	40	
47	GND		71	41	
48	GND		72	42	
49	GND		73	43	
50	GND		74	44	
51	GND		75	45	
52	GND		76	46	
53	GND		77	47	
54	GND		78	48	
55	GND		79	49	
56	GND		80	50	
57	GND		81	51	
58	GND		82	52	
59	GND		83	53	
60	GND		84	54	
61	GND		85	55	
62	GND		86	56	
63	GND		87	57	
64	GND		88	58	
65	GND		89	59	
66	GND		90	60	
67	GND		91	61	
68	GND		92	62	
69	GND		93	63	
70	GND		94	64	
71	GND		95	65	
72	GND		96	66	
73	GND		97	67	
74	GND		98	68	
75	GND		99	69	
76	GND		100	70	
77	GND		101	71	
78	GND		102	72	
79	GND		103	73	
80	GND		104	74	
81	GND		105	75	
82	GND		106	76	
83	GND		107	77	
84	GND		108	78	
85	GND		109	79	
86	GND		110	80	
87	GND		111	81	
88	GND		112	82	
89	GND		113	83	
90	GND		114	84	
91	GND		115	85	
92	GND		116	86	
93	GND		117	87	
94	GND		118	88	
95	GND		119	89	
96	GND		120	90	
97	GND		121	91	
98	GND		122	92	
99	GND		123	93	
100	GND		124	94	

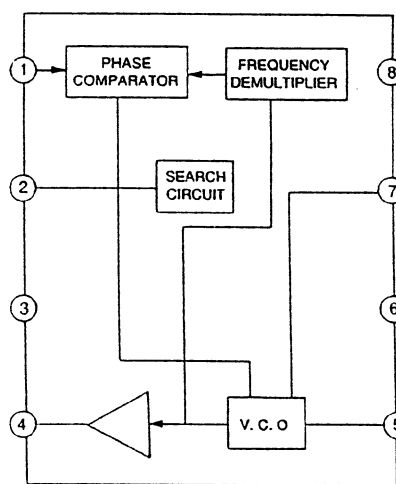
All Voltage are in V.  
Pin numbers which are not described are not used.

B (1/3) BOARD TRANSISTOR VOLTAGE LIST

Q1	B	C	E	Q26	B	C	E
Q1	5.4	9.4	4.8	Q26	8.0	3.3	8.5
Q2	4.0	4.8	4.9	Q27	2.7	8.0	2.1
Q3	0.7	4.0	GND	Q28	3.3	8.5	2.5
Q6	5.4	GND	6.0	Q29	4.6	0.4	GND
Q7	4.5	9.4	3.9	Q30	2.5	GND	3.1
Q8	0	7.8	GND	Q32	0	GND	0.8
Q9	1.2	4.9	1.4	Q33	0	GND	0.7
Q10	0.6	GND	1.2	Q34	0	GND	0.7
Q11	3.7	4.9	3.1	Q35	0	5.2	0.4
Q12	3.3	4.9	2.6	Q36	3.4	8.5	2.7
Q13	0	2.5	GND	Q37	3.4	8.5	2.7
Q14	3.5	8.6	2.9	Q38	1.8	8.5	1.9
Q15	2.9	8.6	2.2	Q41	0	5.3	GND
Q16	2.8	8.6	2.2	Q42	0.2	4.8	GND
Q17	3.7	0	GND	Q43	0	6.3	GND
Q18	2.9	GND	3.6	Q44	9.1	0	9.4
Q19	2.9	9.3	2.2	Q45	3.8	GND	4.4
Q20	2.2	GND	2.9	Q46	0	0	GND
Q22	2.5	3.2	1.8	Q47	0.7	8.6	0.7
Q23	1.6	GND	2.3	Q48	0	8.6	0.7
Q24	1.3	GND	1.9	Q49	0	0	GND
Q25	2.2	GND	2.8	Q52	6.3	9.1	5.7

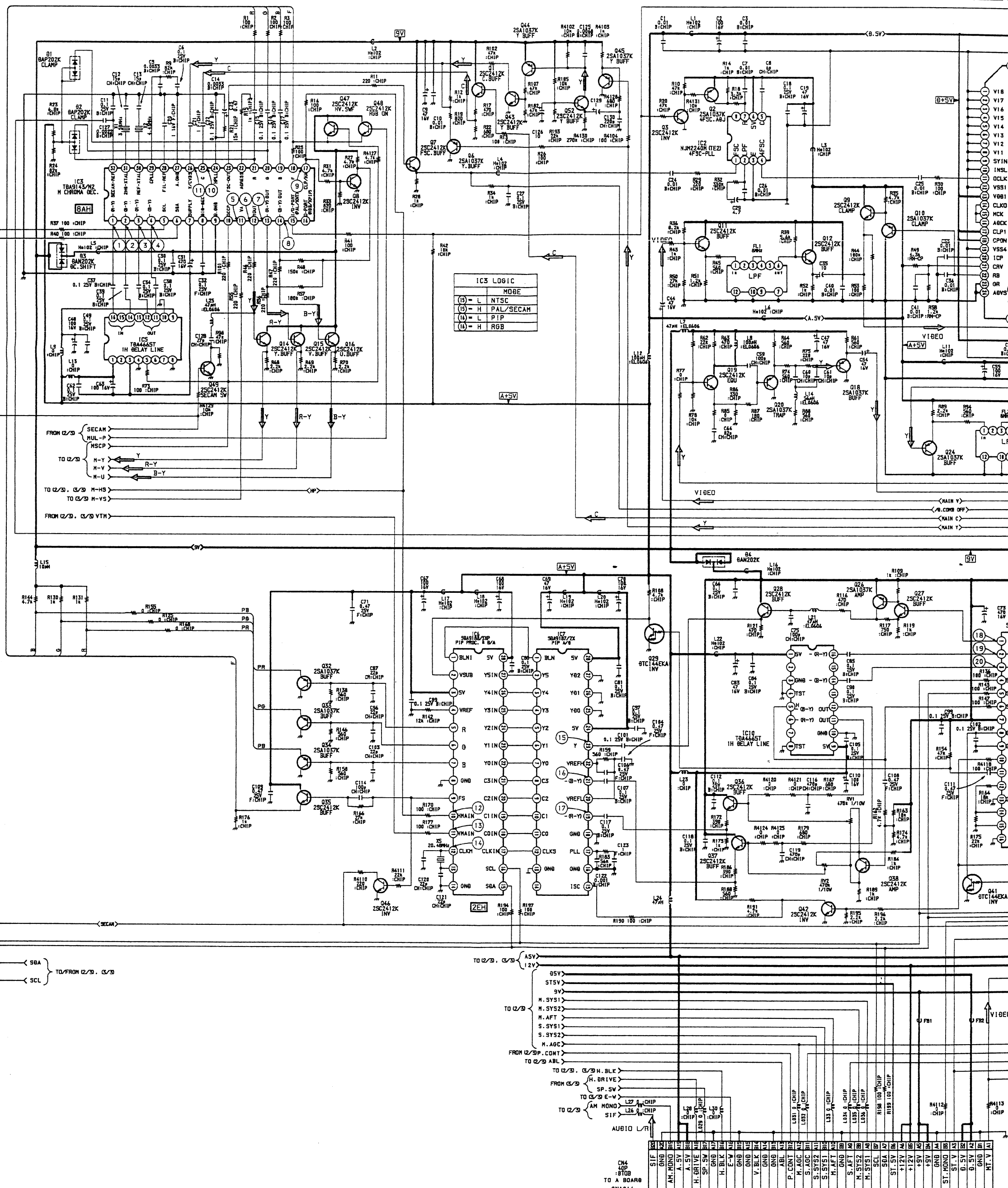
All voltages are in V.

B (1/3) BOARD : IC2 NJM2240M (TE2)



Schematic diagrams

B (1/3) board →



# E LIST

1.9	25	0.7
1.9	26	1.5
3.6	27	1.5
5.4	28	5.2
3ND	IC7	1 4.4
2.8		2 1.5
0		3 1.5
3.5		4 0.7
2.8		5 1.5
2.8		6 1.9
5.0		7 2.0
3.6		8 0.9
0.4		9 1.0
0.4		10 0.9
5.3		11 0.9
5.3		12 2.8
5.3		13 GND
3.2		15 4.8
4.5		16 GND
4.4		17 2.3
0.1		18 GND
4.1		19 2.8
GND		20 1.2
3.9		21 2.8
5.2		22 2.0
2.9		23 2.6
3.0		24 5.2
0		25 GND
4.6		26 GND
3.6		27 GND
4.6	IC8	28 5.2
GND		1 2.7
4.0		2 2.3
9.4		3 2.3
3.9		4 4.9
GND		5 4.9
5.3		6 0.7
GND		7 8.5
GND		8 5.3
0.8		9 GND
GND		10 0.4
5.2		11 7.7
GND		12 4.1
3.3		13 GND
3.3		14 2.3
1.6		15 GND
1.6		16 GND
4.4		18 3.9
0.4		19 0.4
5.2		21 4.3
2.1		25 8.5
0		26 4.1
0		27 GND
0		28 3.7
GND		29 5.0
0		30 2.5
0.4		31 1.7
0.4		32 0
2.1	IC10	1 5.2
2.6		3 GND
GND		4 GND
4.9		5 0.7
5.0		8 GND
2.8		9 5.2
0.9		10 GND
0.9		11 3.4
1.0		12 3.3
0.9		14 1.6
2.0		16 1.6
1.9		
1.5		

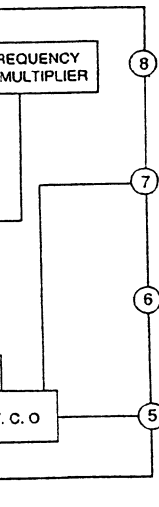
All Voltage are in V.  
are not described are not used.

## LIST

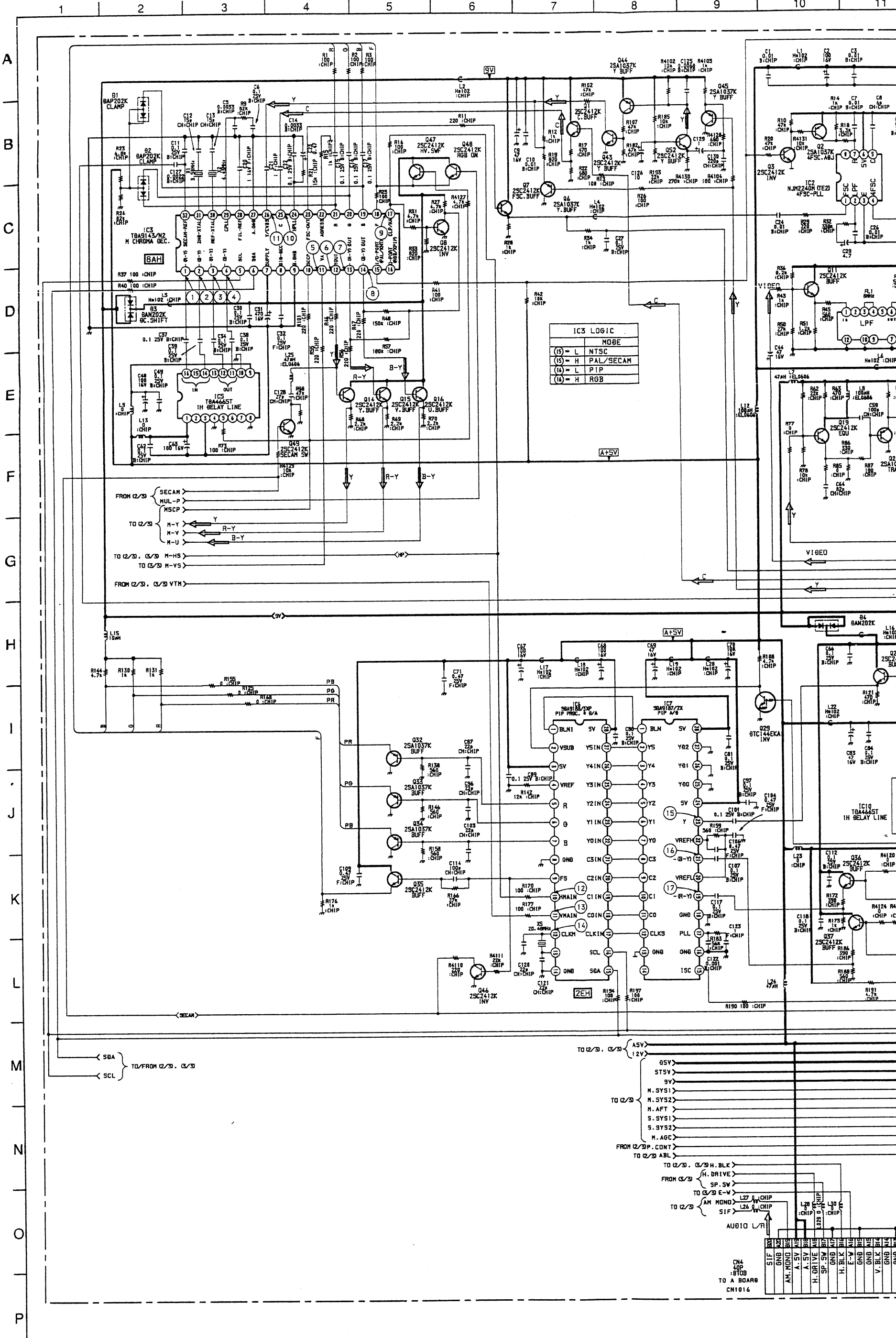
B	C	E
3.0	3.3	8.5
2.7	8.0	2.1
3.3	8.5	2.5
4.6	0.4	GND
2.5	GND	3.1
0	GND	0.8
0	GND	0.7
0	GND	0.7
0	5.2	0.4
3.4	8.5	2.7
3.4	8.5	2.7
1.8	8.5	1.9
0	5.3	GND
0.2	4.8	GND
0	6.3	GND
9.1	0	9.4
3.8	GND	4.4
0	0	GND
0.7	8.6	0.7
0	8.6	0.7
0	0	GND
8.3	9.1	5.7

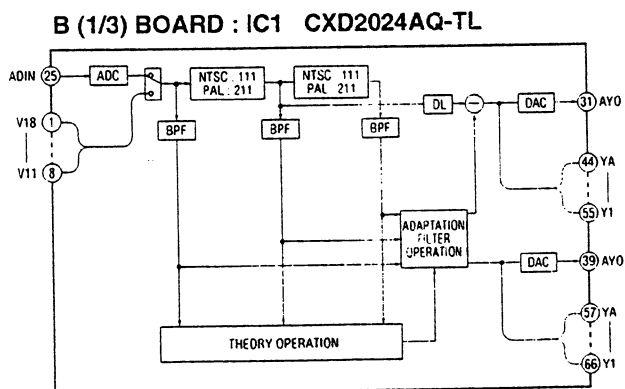
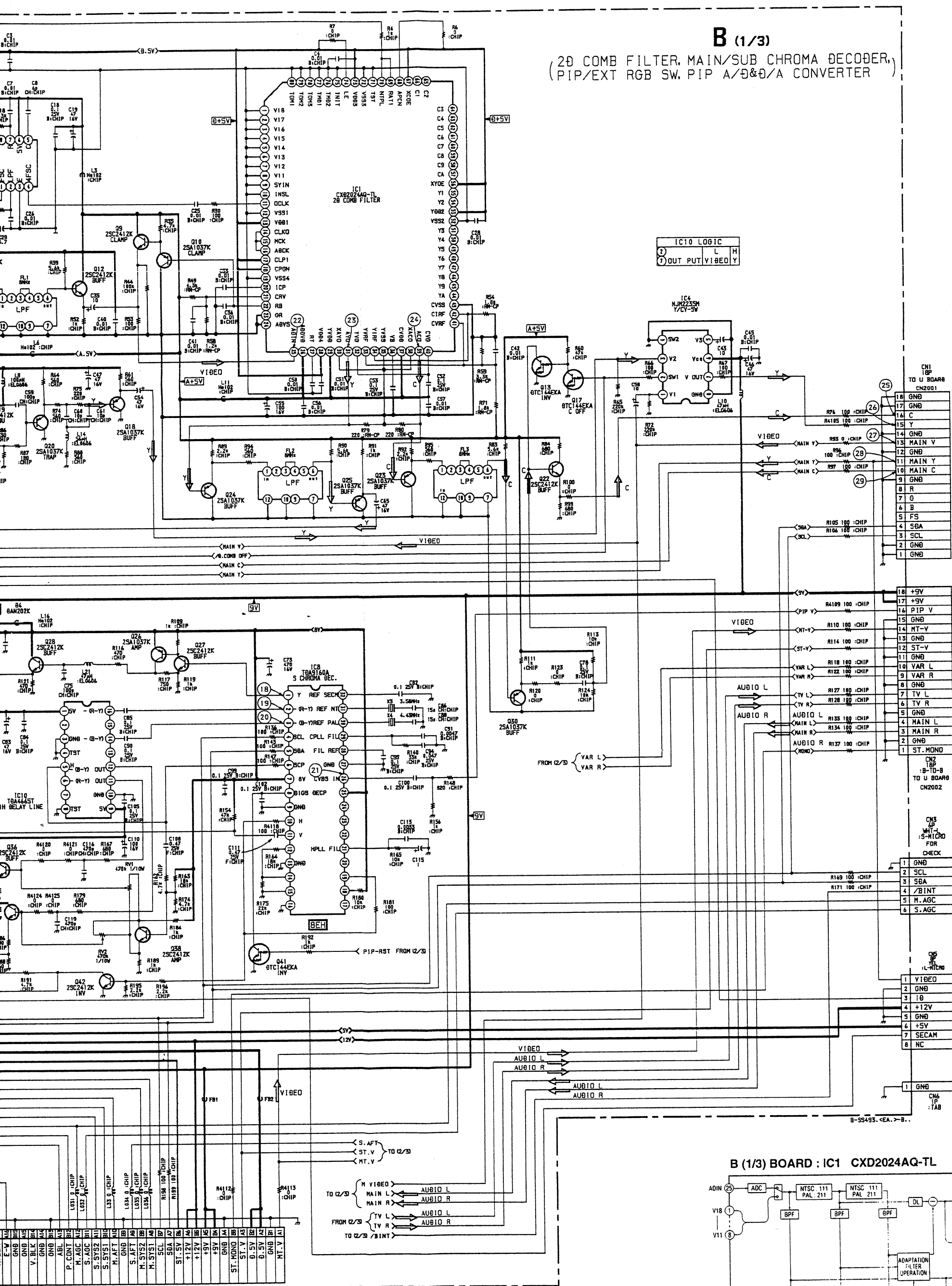
All voltages are in V.

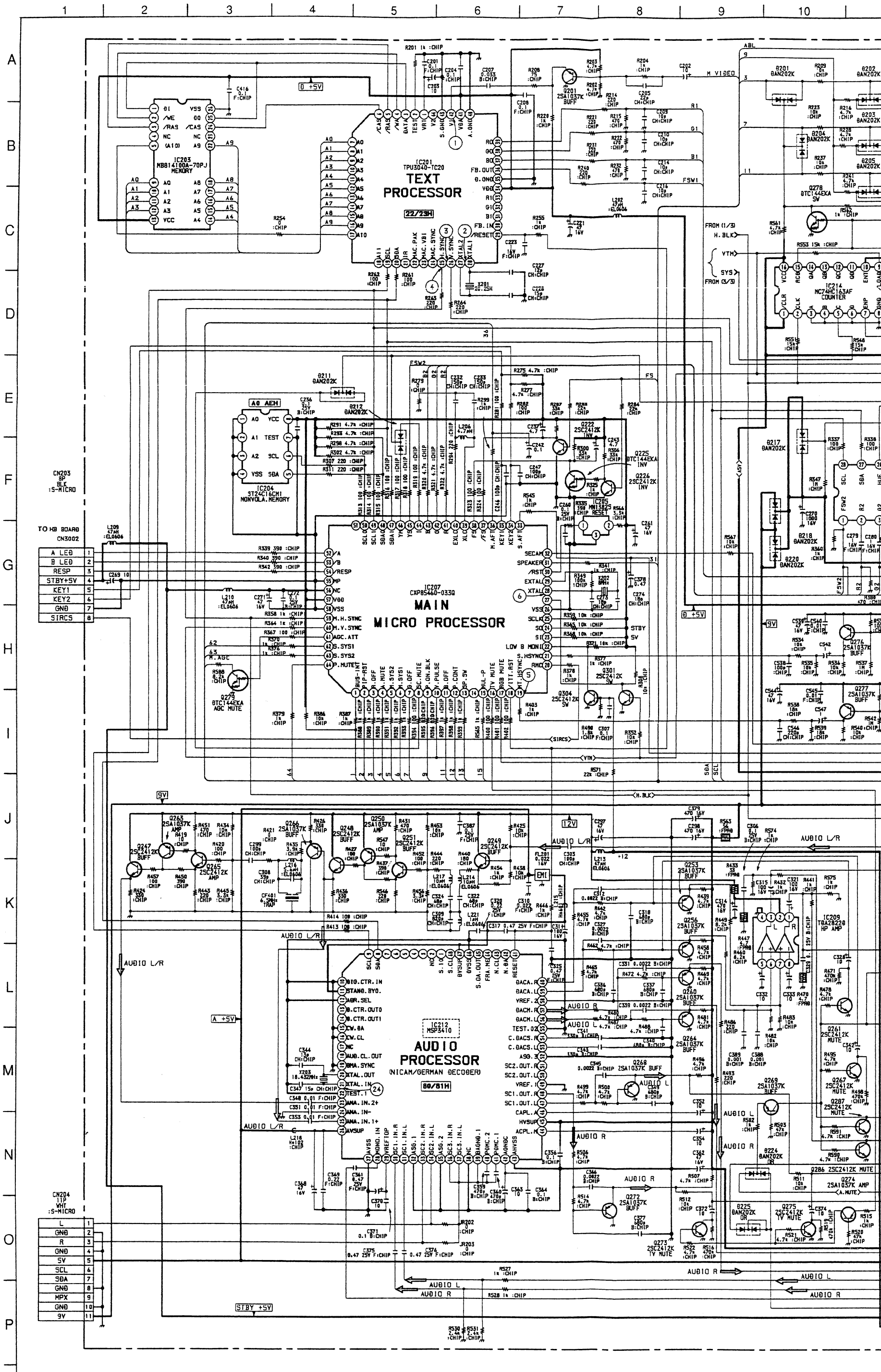
## 2 NJM2240M (TE2)

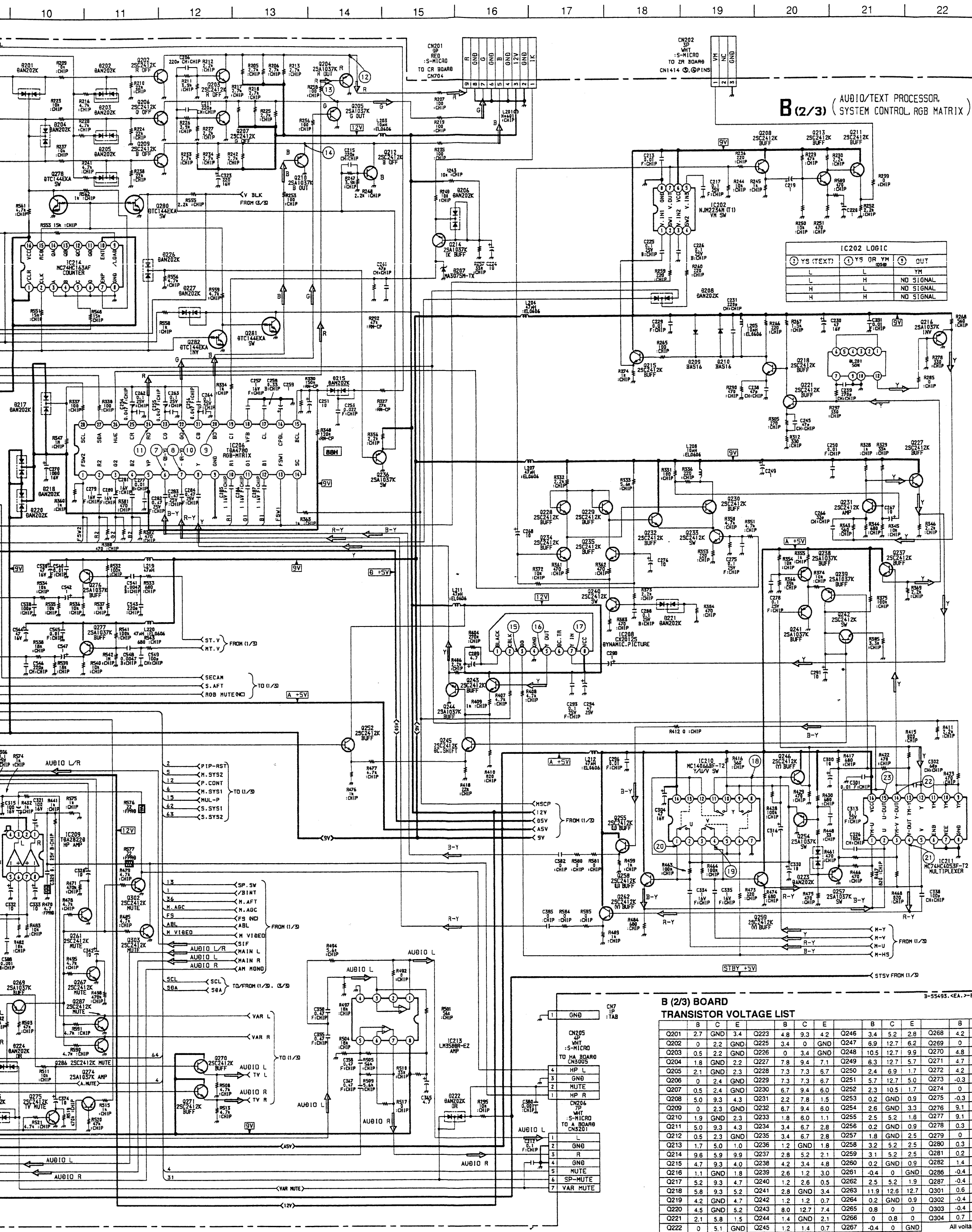


atic diagrams  
board →









# B(2/3) (AUDIO/TEXT PROCESSOR, SYSTEM CONTROL RGB MATRIX)

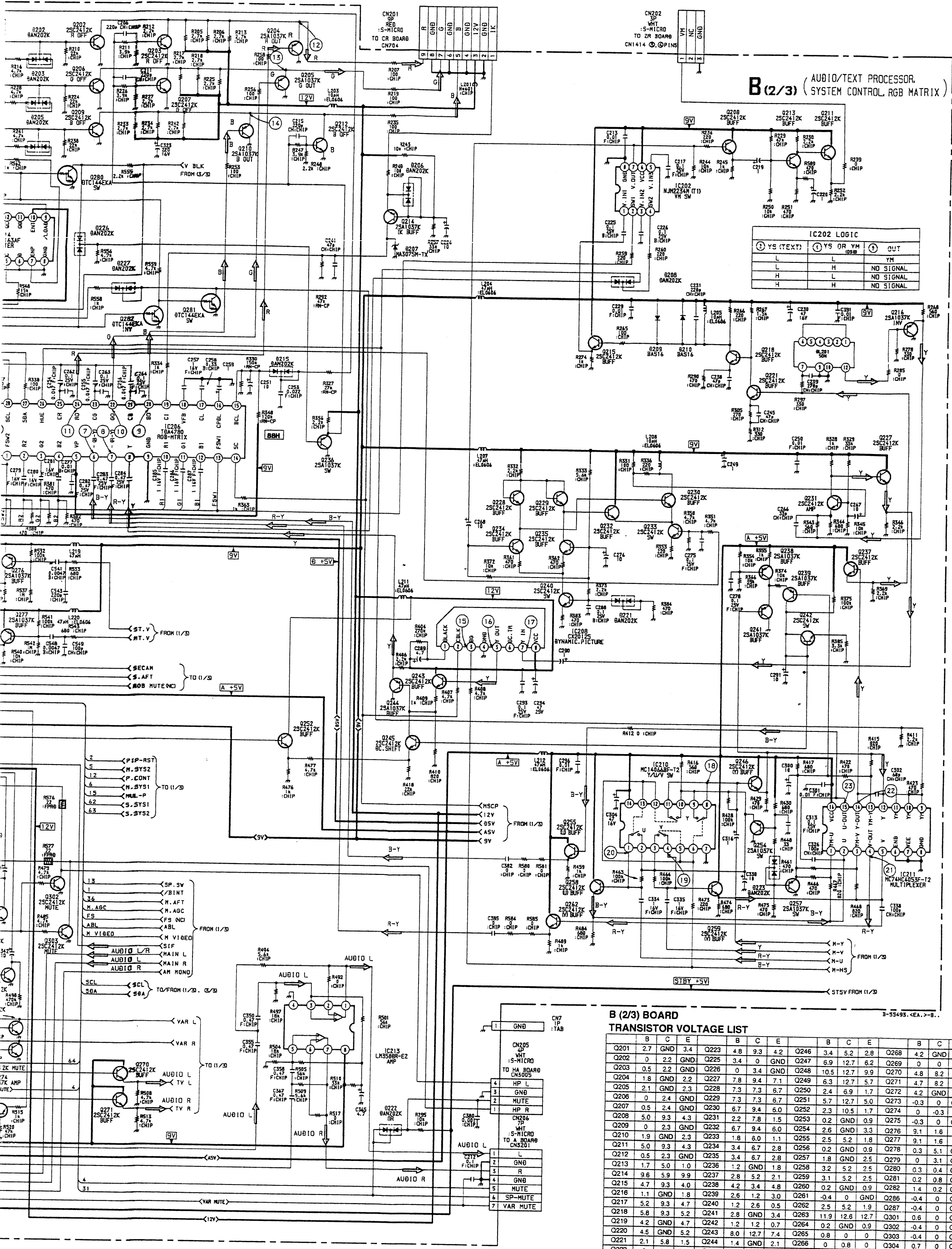
IC202 LOGIC

YS (TEXT)	YS OR YM	OUT
L	L	YM
L	H	NO SIGNAL
H	L	NO SIGNAL
H	H	NO SIGNAL

## B (2/3) BOARD TRANSISTOR VOLTAGE LIST

	B	C	E		B	C	E		B	C	E		B	C	E		B	C	E
Q201	2.7	GND	3.4	Q223	4.8	9.3	4.2	Q246	3.4	5.2	2.8	Q268	4.2						
Q202	0	2.2	GND	Q225	3.4	0	GND	Q247	6.9	12.7	6.2	Q269	0						
Q203	0.5	2.2	GND	Q226	0	3.4	GND	Q248	10.5	12.7	9.9	Q270	4.8						
Q204	1.8	GND	2.2	Q227	7.8	9.4	7.1	Q249	6.3	12.7	5.7	Q271	4.7						
Q205	2.1	GND	2.3	Q228	7.3	7.3	6.7	Q250	2.4	6.9	1.7	Q272	4.2						
Q206	0	2.4	GND	Q229	7.3	7.3	6.7	Q251	5.7	12.7	5.0	Q273	-0.3						
Q207	0.5	2.4	GND	Q230	6.7	9.4	6.0	Q252	2.3	10.5	1.7	Q274	0						
Q208	5.0	9.3	4.3	Q231	2.2	7.8	1.5	Q253	0.2	GND	0.9	Q275	-0.3						
Q209	0	2.3	GND	Q232	6.7	9.4	6.0	Q254	2.6	GND	3.3	Q276	9.1						
Q210	1.9	GND	2.3	Q233	1.8	6.0	1.1	Q255	2.5	5.2	1.8	Q277	9.1						
Q211	5.0	9.3	4.3	Q234	3.4	6.7	2.8	Q256	0.2	GND	0.9	Q278	0.3						
Q212	0.5	2.3	GND	Q235	3.4	6.7	2.8	Q257	1.8	GND	2.5	Q279	0						
Q213	1.7	5.0	1.0	Q236	1.2	GND	1.8	Q258	3.2	5.2	2.5	Q280	0.3						
Q214	9.6	5.9	9.9	Q237	2.8	5.2	2.1	Q259	3.1	5.2	2.5	Q281	0.2						
Q215	4.7	9.3	4.0	Q238	4.2	3.4	4.8	Q260	0.2	GND	0.9	Q282	1.4						
Q216	1.1	GND	1.8	Q239	2.6	1.2	3.0	Q261	-0.4	0	GND	Q286	-0.4						
Q217	5.2	9.3	4.7	Q240	1.2	2.6	0.5	Q262	2.5	5.2	1.9	Q287	-0.4						
Q218	5.8	9.3	5.2	Q241	2.8	GND	0.3	Q263	11.9	12.6	12.7	Q301	0.6						
Q219	4.2	GND	4.7	Q242	1.2	1.2	0.7	Q264	0.2	GND	0.9	Q302	-0.4						
Q220	4.5	GND	5.2	Q243	8.0	12.7	7.4	Q265	0.8	0	0	Q303	-0.4						
Q221	2.1	5.8	1.5	Q244	1.4	GND	2.1	Q266	0	0.8	0	Q304	0.7						
Q222	0	5.1	GND	Q245	1.2	1.4	0.7	Q267	-0.4	0	GND								

All voltages are in Volts.

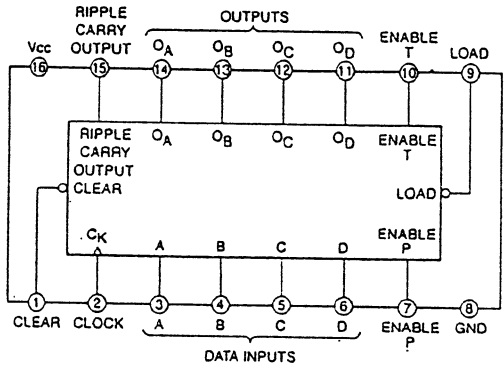


# B (2/3) BOARD IC VOLTAGE LIST

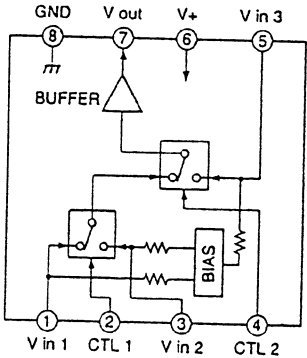
IC201	1	3.1	IC206	3	GND	43	0	11	5.2
	2	0		1	0	44	0	12	GND
	3	0.2		2	5.4	45	0	15	GND
	4	5.2		3	5.4	46	0	16	GND
	5	5.1		4	5.4	47	4.9	19	GND
	6	5.2		5	8.6	48	5.2	20	2.7
	7	2.7		6	4.3	49	4.9	21	2.6
	8	2.7		7	4.3	50	5.2	22	GND
	9	2.7		8	4.1	52	4.0	23	1.7
	10	2.7		9	GND	53	4.0	24	1.7
	11	2.7		10	5.4	54	4.0	25	0.7
	12	2.6		11	5.4	55	GND	26	5.2
	13	2.6		12	5.4	56	5.2	27	GND
	14	2.7		13	0	57	5.2	28	4.1
	15	2.7		14	0.8	58	0	29	2.9
	16	2.6		15	4.5	59	0.4	30	4.1
	17	2.6		16	5.1	60	0.6	31	4.1
	19	4.9		17	5.5	61	0	32	GND
	20	4.9		18	2.2	62	0	33	4.1
	25	0.4		19	5.8	63	0	34	4.1
	26	0.6		20	1.9	64	0	35	GND
	27	2.8		21	3.2	IC208	1	36	4.1
	28	*		22	2.1		2	37	4.1
	29	5.2		23	3.2		3	38	GND
	34	5.2		24	1.8		4	39	4.1
	35	GND		25	3.0		5	40	4.1
	36	0		26	3.5		6	41	4.1
	37	0		27	5.0		7	42	4.1
	38	0		28	4.8		8	43	GND
	39	0		29	5.2	IC209	1	44	7.2
	40	GND		30	5.2		2	45	8.2
	41	5.2		31	0		3	46	7.1
	42	1.7		32	0		4	47	4.2
	43	GND		33	0		5	48	4.2
IC202	1	5.7		34	5.2		6	49	GND
	2	0		35	5.2		7	52	GND
	3	5.8		36	2.6		8	53	4.1
	4	0		37	5.2		9	54	4.1
	5	5.7		38	0		10	55	GND
	6	9.3		39	3.8		11	56	0.2
	7	5.0		40	2.8		12	57	0.2
	8	GND		41	0		13	58	GND
IC203	1	0.2		42	0		14	59	0.2
	2	5.2					15	60	0.2
	3	5.1					16	61	5.2
	5	0					17	66	GND
	9	2.7					18	67	5.2
	10	2.7					19	1	1.1
	11	2.7					20	2	1.2
	12	2.7					21	3	1.2
	13	5.2					22	4	GND
	14	5.7					23	5	1.2
	15	2.6					24	6	1.1
	16	2.6					25	7	1.2
	17	2.7					26	8	8.2
	18	2.7					27	1	0
	22	2.6					28	2	1.4
	24	5.2					29	3	GND
	25	0.2					30	4	GND
	26	0.2					31	5	0
	27	0.2					32	6	GND
IC204	1	GND					33	7	5.2
	2	GND					34	8	GND
	3	GND					35	9	0
	4	GND					36	10	0
	5	5.2					37	11	0
	6	5.2					38	12	2.8
	7	GND					39	13	2.6
	8	5.2					40	14	2.8
IC205	1	5.2					41	15	2.5
	2	5.2					42	16	5.2

All Voltage are in V.  
Pin numbers which are not described are not used.  
\* : Can not measured.

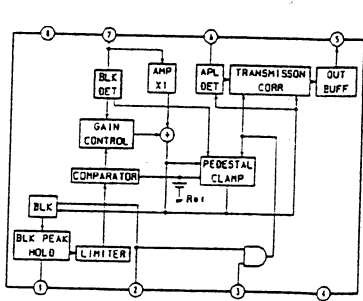
## B (2/3) BOARD : IC214 MC74HC163AF



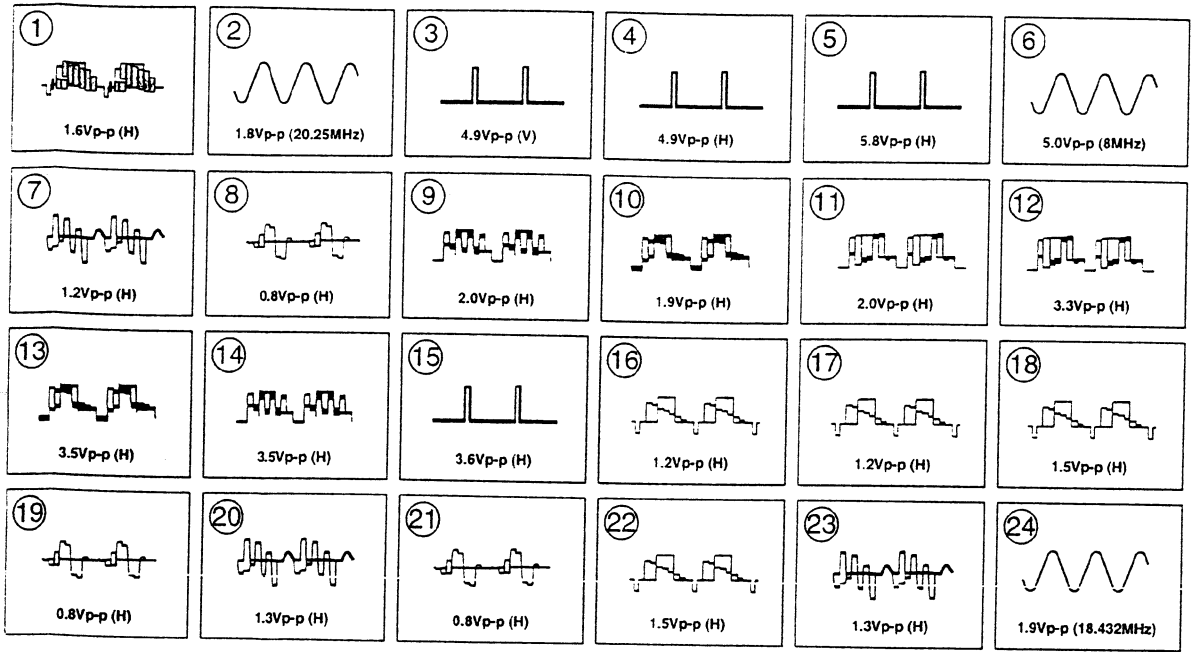
## B (2/3) BOARD : IC202 NJM2234M



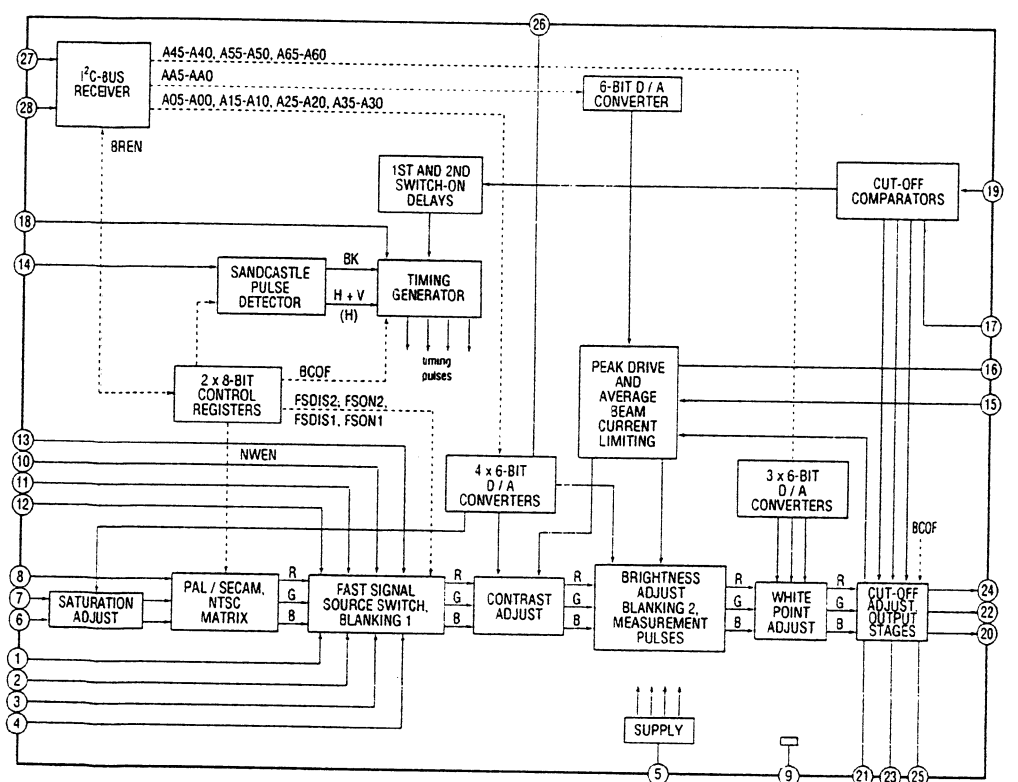
## B (2/3) BOARD : IC208 CX20125



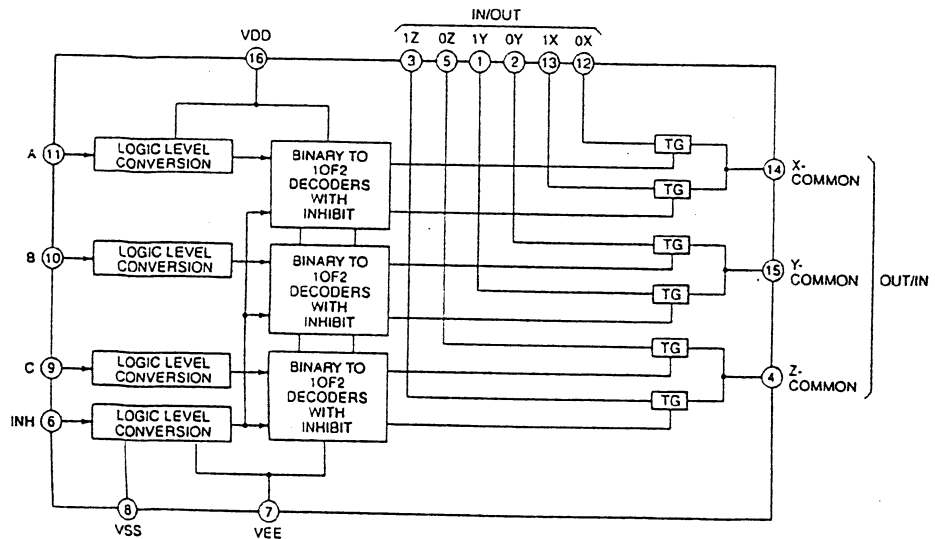
## • B (2/3) BOARD WAVEFORMS



## B (2/3) BOARD : IC206 TDA4780



## B (2/3) BOARD : IC211 MC74HC4053F-T2

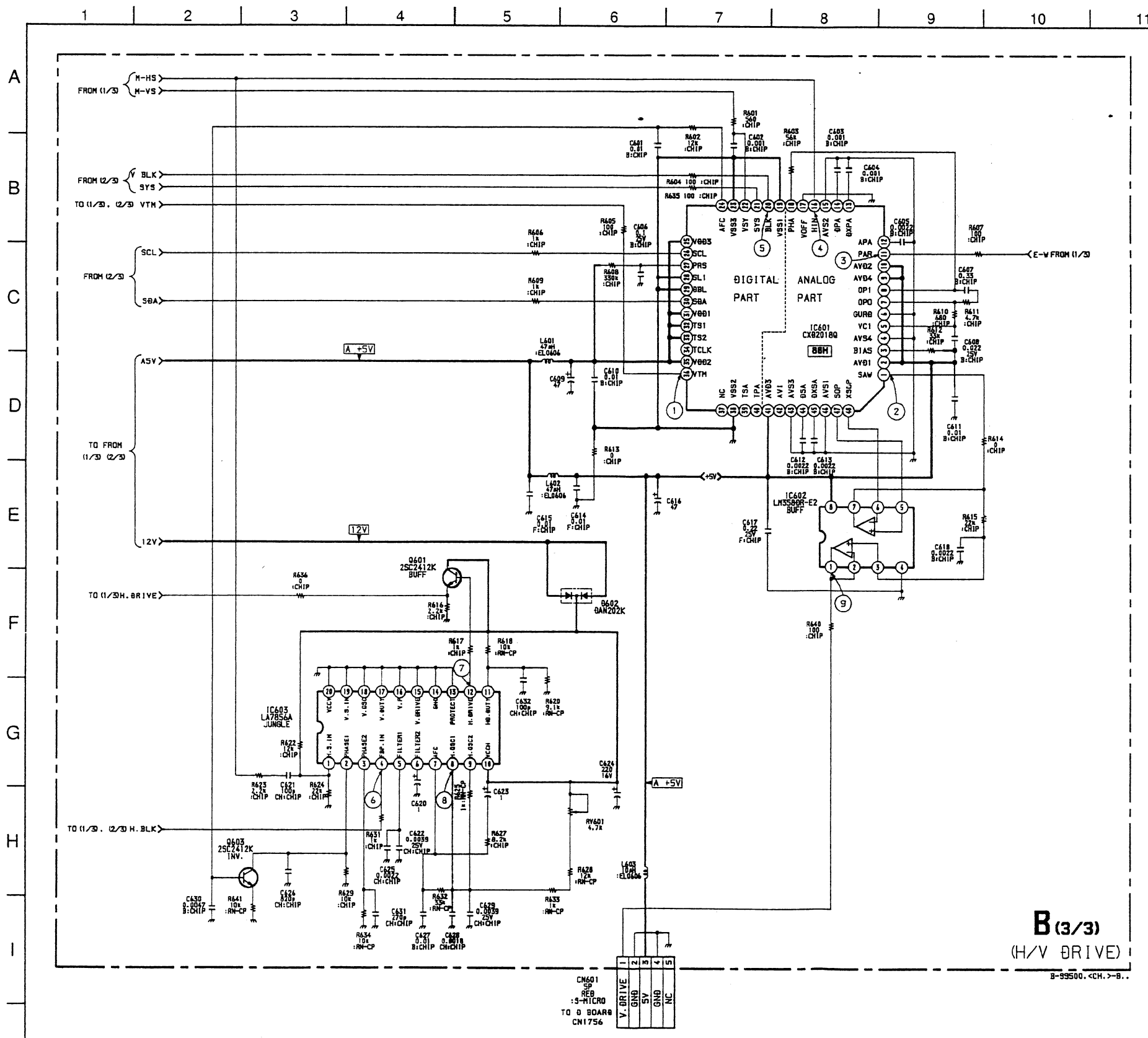


Schematic diagrams

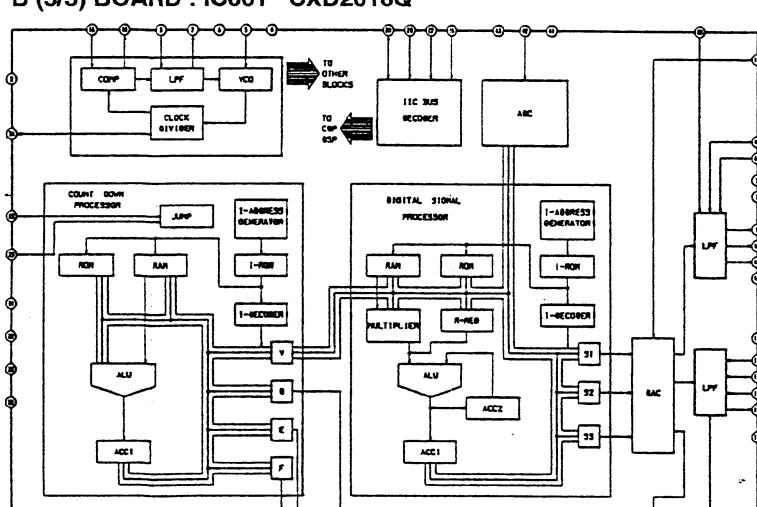
← B (2/3) board

Schematic diagrams

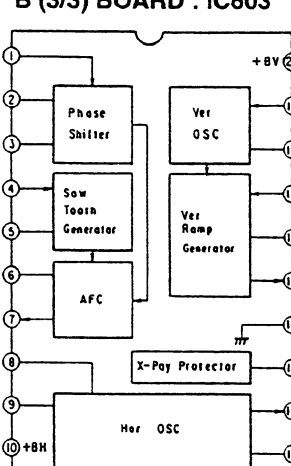
B (3/3) board →



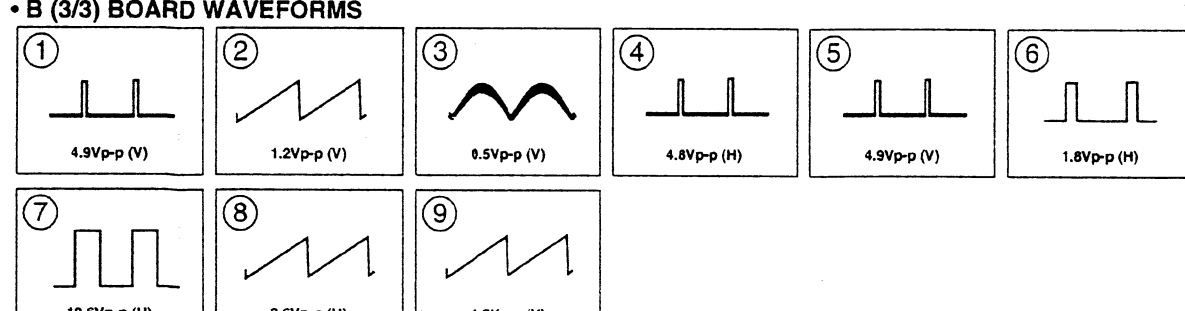
## B (3/3) BOARD : IC601 CXD2018Q



## B (3/3) BOARD : IC603 LA7856A



### 5.2.2 BOARD WAVEFORMS



### **CONCLUSIONS**

IC601	1	2.2		19	GND		41	5.3		4	0.9
	2	5.3		20	0.6		43	GND		5	4.0
	3	1.8		21	0		44	1.6		6	3.2
	4	GND		22	0.2		45	1.6		7	6.3
	5	2.4		23	0		46	GND		8	6.3
	6	GND		24	1.3		47	1.9		9	5.9
	7	2.4		25	5.3		48	1.9		10	12.0
	8	2.7		26	4.9	IC602	1	2.2		11	6.0
	9	5.3		27	5.1		2	2.2		12	4.7
	10	5.3		28	GND		3	2.2		13	GND
	11	2.2		29	GND		4	GND		14	GND
	12	2.2		30	4.9	5	1.9		15	GND	
	13	1.6		31	5.3	6	1.9		16	GND	
	14	1.6		32	5.3	7	2.1		17	GND	
	15	GND		33	5.3	8	5.3		18	GND	
	16	0.4		35	5.3	IC603	1	7.7		19	GND
	17	GND		36	0.6		2	0.6		20	GND

1.5	2	8.3	20	GND
ND	3	8.4		

**B (3/3) BOARD**

	B	C	E
Q601	4.7	10.0	4.0

4.7	12.0	4.2
4.2	2.2	3.5

**B (3/3)**

DRIVE)

## D BOARD

DIODE		*	D1953	B-10
D1501	B-8	-	D1954	C-10
D1502	B-8	-	C	
D1503	B-8	-	IC1501	B-8
D1505	A-5	-	IC1601	D-4
D1551	C-6	-	IC1602	D-2
D1552	A-6	-	IC1701	B-10
D1553	A-6	-	IC1702	B-10
D1601	E-4	-	IC1801	E-7
D1602	E-5	-	IC1802	C-9
D1603	C-1	-	IC1803	C-5
D1604	D-1	-	IC1804	C-6
D1803	C-9	-	IC1805	E-8
D1812	B-5	-	IC1806	C-8
D1814	B-5	-	IC1807	E-5
D1825	D-6	-	IC1808	D-5
D1826	D-5	-	IC1809	E-10
D1827	D-7	-	IC1931	C-7
D1931	C-7	-	IC1932	C-10
D1932	C-7	-	TRANSISTOR	
D1934	C-7	-	Q1501	B-8
D1935	C-7	-	Q1502	B-9
D1936	C-10	-	Q1551	C-6
D1937	C-10	-	Q1552	C-6
D1942	D-7	-	Q1701	B-10
D1945	C-10	-	Q1801	D-6
D1946	D-10	-	Q1802	C-10
D1947	D-10	-	Q1803	B-5
D1948	C-7	-	Q1804	D-6
D1953	E-7	-	Q1805	D-5

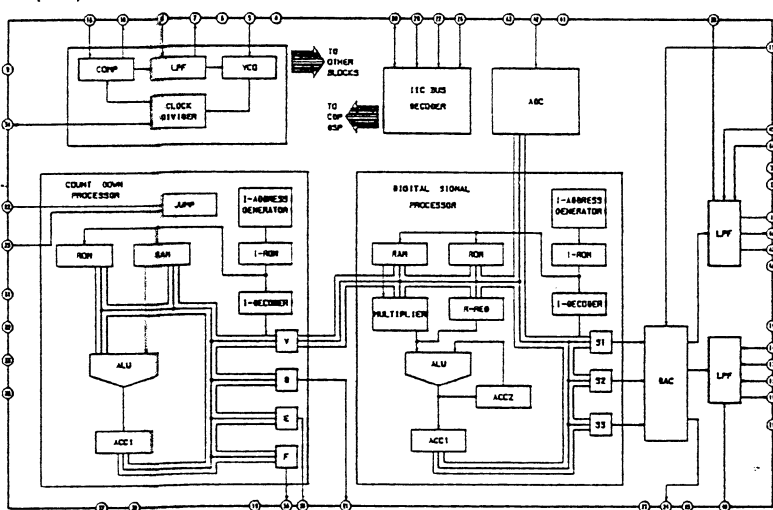
## B BOARD

DIODE		*	Q11	F-3	②	Q232	D-6
D1	F-4	⑩	Q12	F-10	①	Q233	D-8
D2	F-4	⑩	Q13	G-4	②	Q234	D-6
D3	E-9	⑨	Q14	E-4	②	Q235	D-6
D4	G-10	⑨	Q15	E-4	②	Q236	F-8
D201	G-8	⑨	Q16	E-3	②	Q237	E-6
D202	G-8	⑨	Q17	G-4	②	Q238	E-8
D203	G-8	⑨	Q18	G-10	①	Q239	E-8
D204	G-8	⑨	Q19	F-10	①	Q240	D-6
D205	G-8	⑨	Q20	G-10	①	Q241	E-6
D206	F-6	⑨	Q22	G-10	①	Q242	D-8
D207	F-6	⑨	Q23	G-4	②	Q243	D-9
D208	G-6	⑨	Q24	G-4	②	Q244	E-8
D209	E-6	⑨	Q25	G-4	②	Q245	D-8
D210	E-6	⑨	Q26	G-10	①	Q246	E-5
D211	B-5	⑨	Q27	G-11	①	Q247	A-10
D212	B-9	⑨	Q28	G-11	①	Q248	A-11
D215	G-5	⑨	Q29	F-11	①	Q249	B-11
D217	F-7	⑨	Q30	G-10	①	Q250	A-12
D218	E-6	⑨	Q32	F-11	①	Q251	A-12
D220	E-6	⑨	Q33	E-11	①	Q252	D-8
D221	D-6	⑨	Q34	E-11	①	Q253	B-11
D222	A-10	⑨	Q35	E-3	②	Q254	D-9
D223	D-8	⑨	Q36	F-2	②	Q255	E-5
D224	C-1	⑨	Q37	F-2	②	Q256	B-11
D225	C-2	⑨	Q38	F-2	②	Q257	D-6
D226	D-4	⑨	Q41	G-11	②	Q258	D-4
D227	E-4	⑨	Q42	G-12	①	Q259	E-5
D602	D-10	⑨	Q43	G-8	①	Q260	C-3
D603	D-11	⑨	Q44	G-8	①	Q261	C-11
IC			Q45	G-8	②	Q262	E-5
			Q46	E-2	②	Q263	A-11
IC1	G-4		Q47	E-9	①	Q264	C-2
IC2	G-9		Q48	E-9	①	Q265	A-11
IC3	F-4, F-9		Q49	E-9	①	Q266	A-11
IC4	G-11		Q52	G-8	①	Q267	B-11
IC5	E-4		Q201	B-8	①	Q268	B-11
IC6	F-2		Q202	G-8	①	Q269	C-12
IC7	F-2		Q203	G-6	②	Q270	B-2
IC8	G-2, G-11		Q204	G-6	②	Q271	B-2
IC10	F-3		Q205	G-6	②	Q272	B-11
IC201	B-6		Q206	G-8	②	Q273	B-12
IC202	G-6		Q207	G-6	②	Q274	B-12
IC203	A-6		Q208	G-7	①	Q275	B-12
IC204	A-8		Q209	G-8	①	Q276	C-8
IC205	C-9		Q210	G-8	①	Q277	C-9
IC206	F-6, F-8		Q211	G-7	①	Q278	D-9
IC207	B-5		Q212	G-6	②	Q279	B-9
IC208	D-5, D-9		Q213	G-7	②	Q280	D-4
IC209	B-3		Q214	F-6	②	Q281	E-4
IC210	D-5		Q215	D-7	①	Q282	D-4
IC212	B-2		Q216	D-8	①	Q286	C-2
IC213	B-10		Q217	D-6	②	Q287	C-2
IC214	D-4		Q218	E-7	①	Q301	B-9
IC601	D-2		Q219	D-7	①	Q302	A-11
IC602	E-2		Q220	D-6	②	Q303	A-11
IC603	E-3, E-10		Q221	E-6	②	Q304	C-10
TRANSISTOR		*	Q222	B-8	①	Q601	E-11
Q1	F-9	①	Q223	D-6	②	Q602	D-11
Q2	G-9	①	Q225	D-9	②	VARIABLE RESISTOR	
Q3	G-9	①	Q226	B-5	②	RV1	F-2, F-12
Q6	F-8	①	Q227	D-8	②	RV2	F-2, F-12
Q7	F-9	①	Q228	D-6	②	RV601	D-3, D-10
Q8	F-10	①	Q229	D-6			
Q9	F-10	①	Q230	D-6			

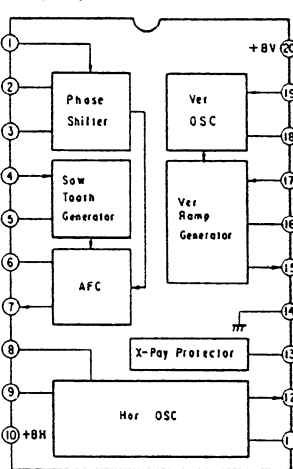
# D BOARD

DIODE			TRANSISTOR		
D1501	B-8	-	Q1501	B-8	①
D1502	B-8	-	Q1502	B-9	①
D1503	B-8	-	Q1551	C-6	①
D1505	A-5	-	Q1552	C-6	①
D1551	C-6	-	Q1701	B-10	①
D1552	A-6	-	Q1801	D-6	①
D1553	A-6	-	Q1802	C-10	①
D1601	E-4	-	Q1803	B-5	①
D1602	E-5	-	Q1804	D-6	①
D1603	C-1	-	Q1805	D-5	①
D1604	D-1	-			
D1803	C-9	-			
D1812	B-5	-			
D1814	B-5	-			
D1825	D-6	-			
D1826	D-5	-			
D1827	D-7	-			
D1931	C-7	-			
D1932	C-7	-			
D1934	C-7	-			
D1935	C-7	-			
D1936	C-10	-			
D1937	C-10	-			
D1942	D-7	-			
D1945	C-10	-			
D1946	D-10	-			
D1947	D-10	-			
D1948	C-7	-			
D1951	D-7	-			

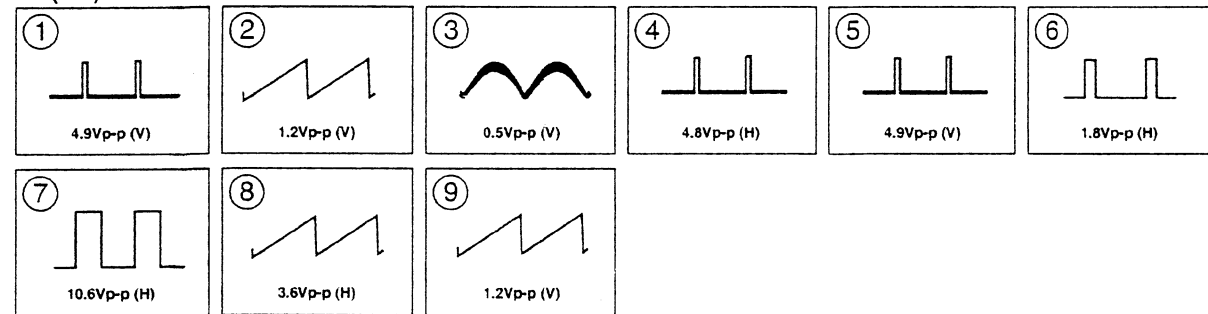
## B (3/3) BOARD : IC601 CXD2018Q



## B (3/3) BOARD : IC603 LA7856A



## • B (3/3) BOARD WAVEFORMS



## B (3/3) BOARD IC VOLTAGE LIST

IC601	1	2.2	19	GND	41	5.3	4	0.9
	2	5.3	20	0.6	43	GND	5	4.0
	3	1.8	21	0	44	1.6	6	3.2
	4	GND	22	0.2	45	1.6	7	6.3
	5	2.4	23	0	46	GND	8	6.3
	6	GND	24	1.3	47	1.9	9	5.9
	7	2.4	25	5.3	48	1.9	10	12.0
	8	2.7	26	4.9	49	1.9	11	6.0
	9	5.3	27	5.1	50	1.9	12	4.7
	10	5.3	28	GND	51	1.9	13	GND
	11	2.2	29	GND	52	1.9	14	GND
	12	2.2	30	4.9	53	1.9	15	GND
	13	1.6	31	5.3	54	1.9	16	GND
	14	1.6	32	5.3	55	1.9	17	GND
	15	GND	33	5.3	56	1.9	18	GND
	16	0.4	34	5.3	57	1.9	19	GND
	17	GND	35	0.5	58	1.9	20	GND
	18	2.7	36	GND	59	1.9		

All Voltage are in V.  
Pin numbers which are not described are not used.

## B (3/3) BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q601	4.7	12.0	4.2
Q603	1.3	9.3	0.7

All voltages are in V.

## B BOARD

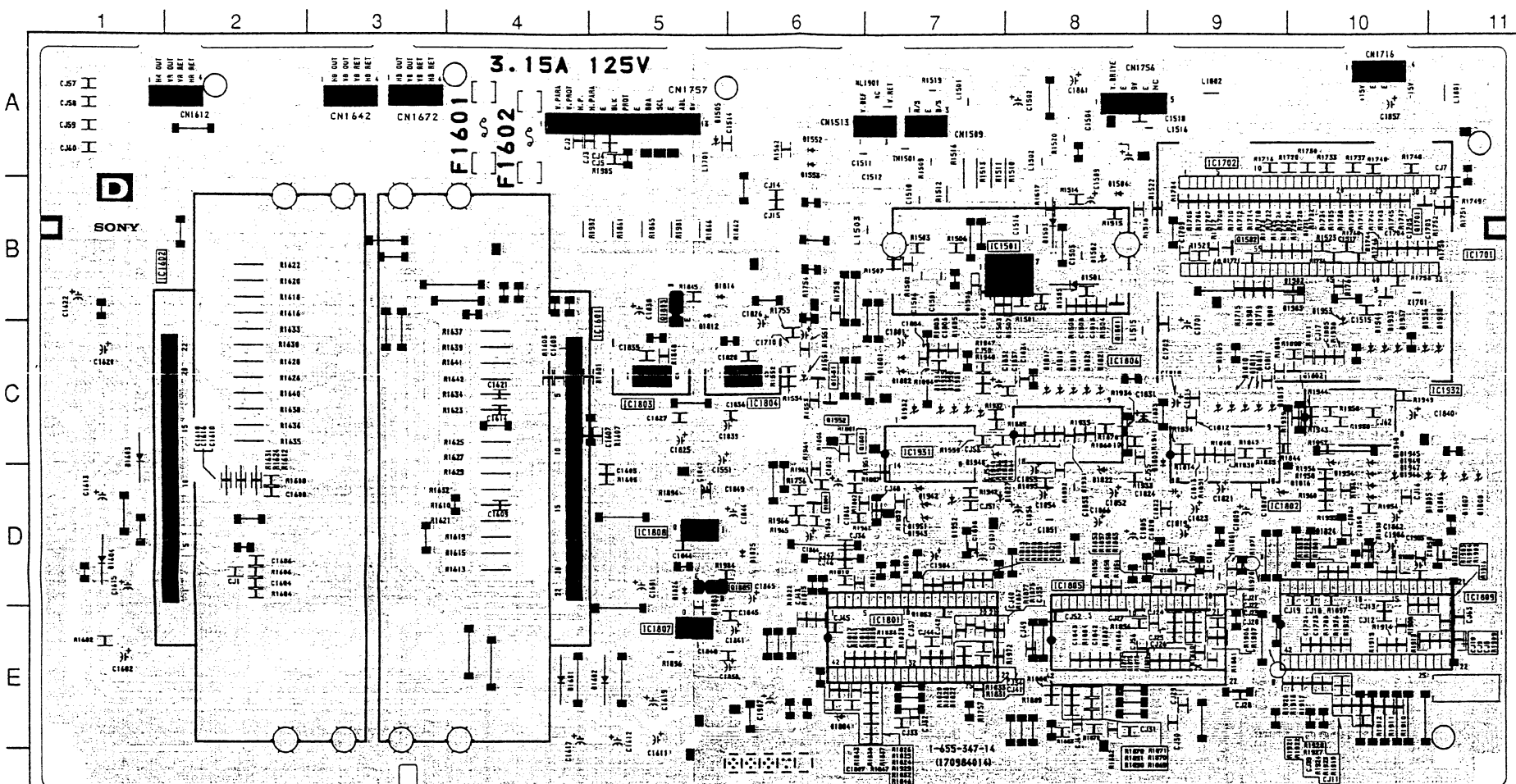
DIODE			TRANSISTOR		
D1	F-4	①	Q11	F-3	②
D2	F-4	②	Q12	F-10	③
D3	E-9	③	Q13	G-4	④
D4	G-10	④	Q14	E-4	⑤
D201	G-8	⑤	Q15	E-4	⑥
D202	G-8	⑥	Q16	E-3	⑦
D203	G-8	⑦	Q17	G-4	⑧
D204	G-8	⑧	Q18	G-10	⑨
D205	G-8	⑨	Q19	F-10	⑩
D206	F-6	⑩	Q20	G-10	⑪
D207	F-6	⑪	Q21	G-10	⑫
D208	G-6	⑫	Q22	G-4	⑬
D209	E-6	⑬	Q23	G-4	⑭
D210	E-6	⑭	Q24	G-4	⑮
D211	B-5	⑮	Q25	G-4	⑯
D212	B-9	⑯	Q26	G-10	⑰
D215	G-5	⑰	Q27	G-11	⑱
D217	F-7	⑱	Q28	G-11	⑲
D218	E-6	⑲	Q29	F-11	⑳
D220	E-6	㉑	Q30	G-10	㉑
D221	D-6	㉑	Q31	F-11	㉒
D222	A-10	㉒	Q32	F-11	㉓
D223	D-8	㉓	Q33	E-11	㉔
D224	C-1	㉔	Q34	E-11	㉕
D225	C-2	㉕	Q35	E-3	㉖
D226	D-4	㉖	Q36	F-2	㉗
D227	E-4	㉗	Q37	F-2	㉘
D602	D-10	㉘	Q38	F-2	㉙
D603	D-11	㉙	Q41	G-11	㉚
			Q42	G-12	㉛
			Q43	G-8	㉜
			Q44	G-8	㉝
			Q45	G-8	㉞
			Q46	E-2	㉟
			Q47	E-9	㊱
			Q48	E-9	㊲
			Q49	E-9	㊳
			Q52	G-8	㊴
			Q201	B-8	㊵
			Q202	G-8	㊶
			Q203	G-6	㊷
			Q204	G-6	㊸
			Q205	G-6	㊹
			Q206	G-8	㊺
			Q207	G-6	㊻
			Q208	G-7	㊼
			Q209	G-8	㊽
			Q210	G-8	㊾
			Q211	G-7	㊿
			Q212	G-6	①
			Q213	G-7	②
			Q214	F-6	③
			Q215	D-7	④
			Q216	D-8	⑤
			Q217	D-6	⑥
			Q218	E-7	⑦
			Q219	D-7	⑧
			Q220	D-6	⑨
			Q221	E-6	⑩
			Q222	B-8	⑪
			Q223	D-6	⑫
			Q225	D-9	⑬
			Q226	B-5	⑭
			Q227	D-8	⑮
			Q228	D-6	⑯
			Q229	D-6	⑰
			Q230	D-8	⑱
			Q231	D-8	⑲

VARIABLE RESISTOR  
RV1 F-2,F-12  
RV2 F-2,F-12  
RV601 D-3,D-10

**D**

[RGB CONVERTER, REGI CONTROL]

- D BOARD -



**B (1/3)**

2D COMB FILTER, MAIN/SUB  
CHROMA DECODER, PIP/EXT RGB SW,  
PIP A/D & D/A CONVERTER

**B (2/3)**

AUDIO/TEXT PROCESSOR,  
SYSTEM CONTROL, RGB MATRIX

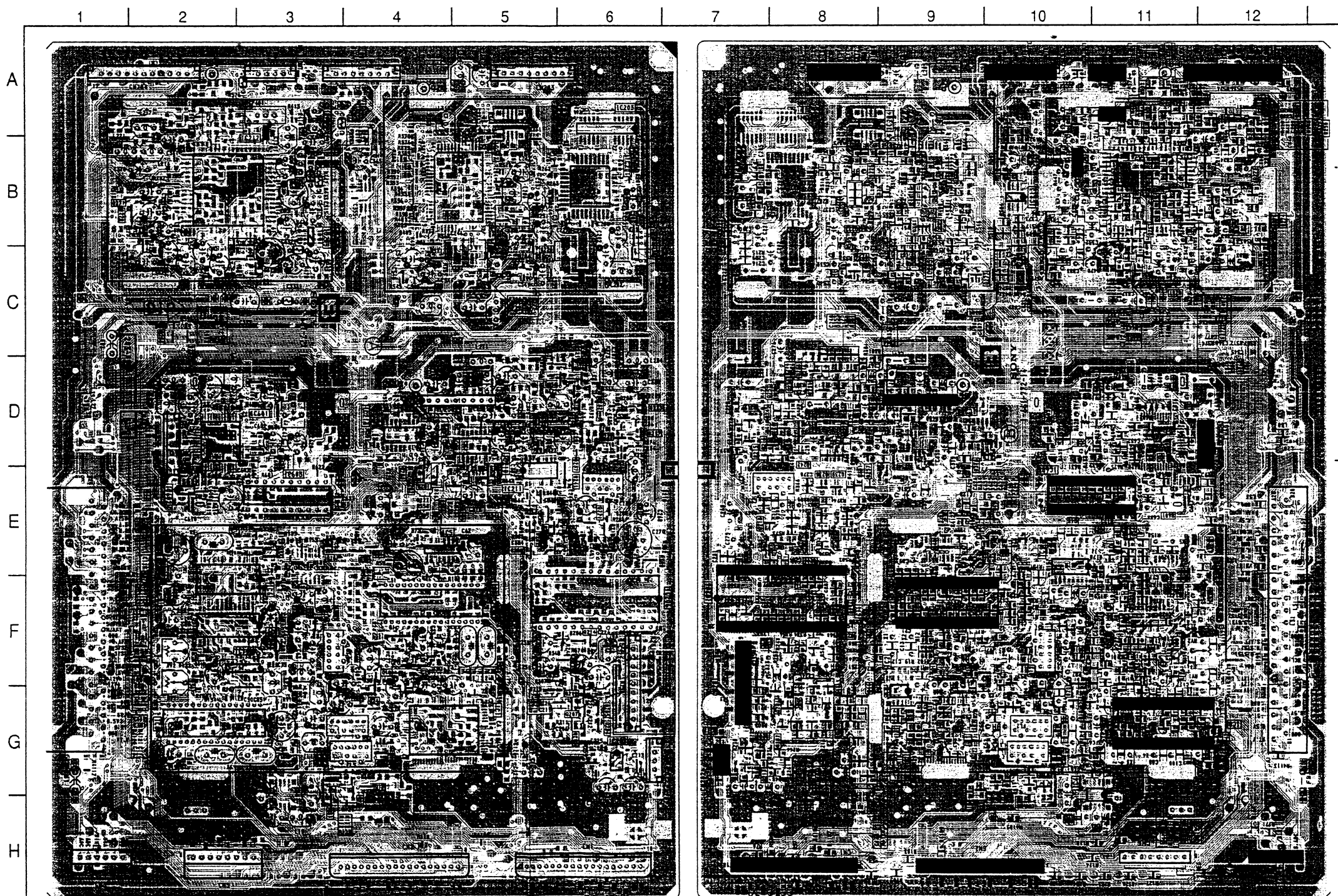
**B (3/3)**

[H/V DRIVE]

NOTE:

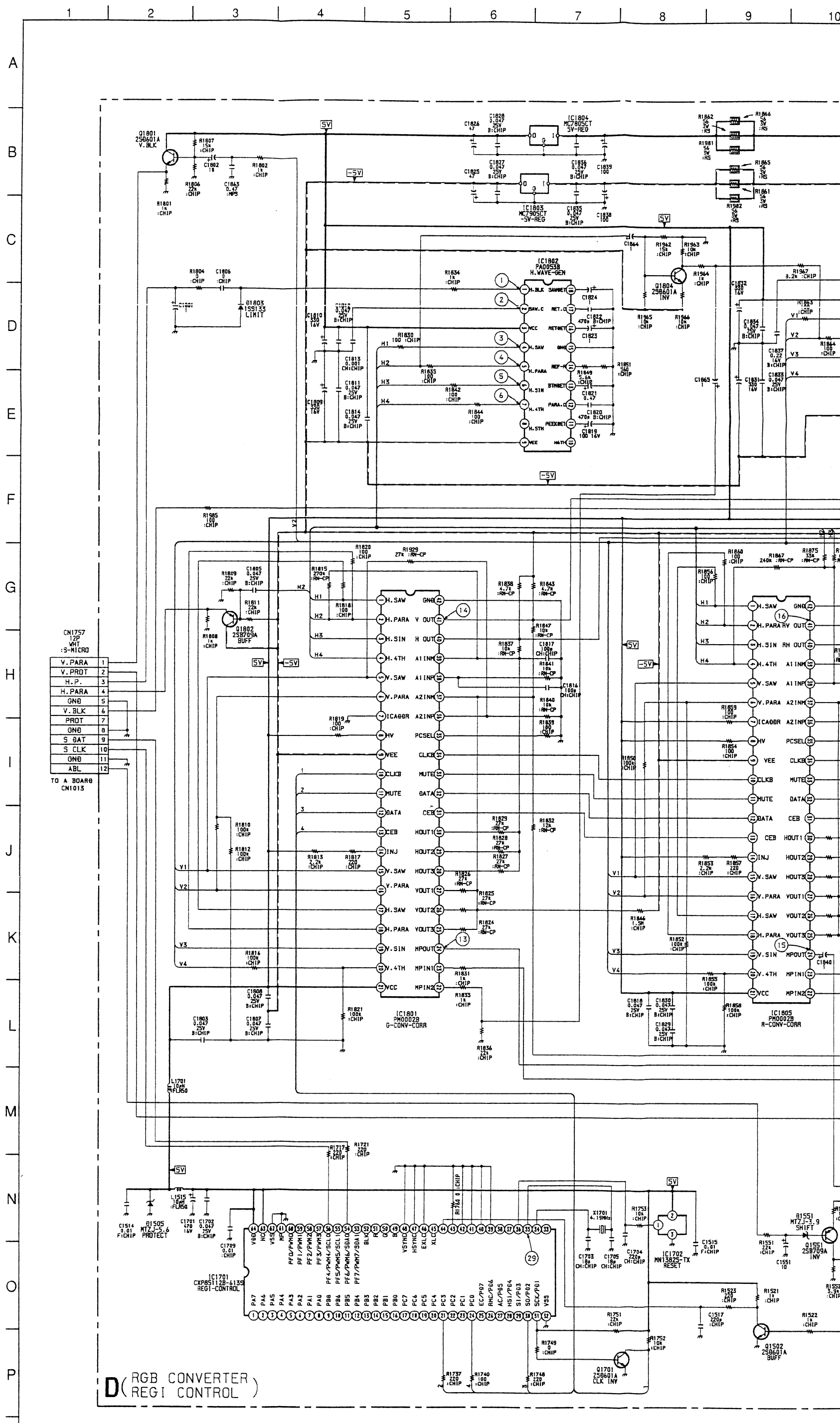
- Pattern from the side which enables seeing.
- Pattern of the rear side.

- B BOARD -

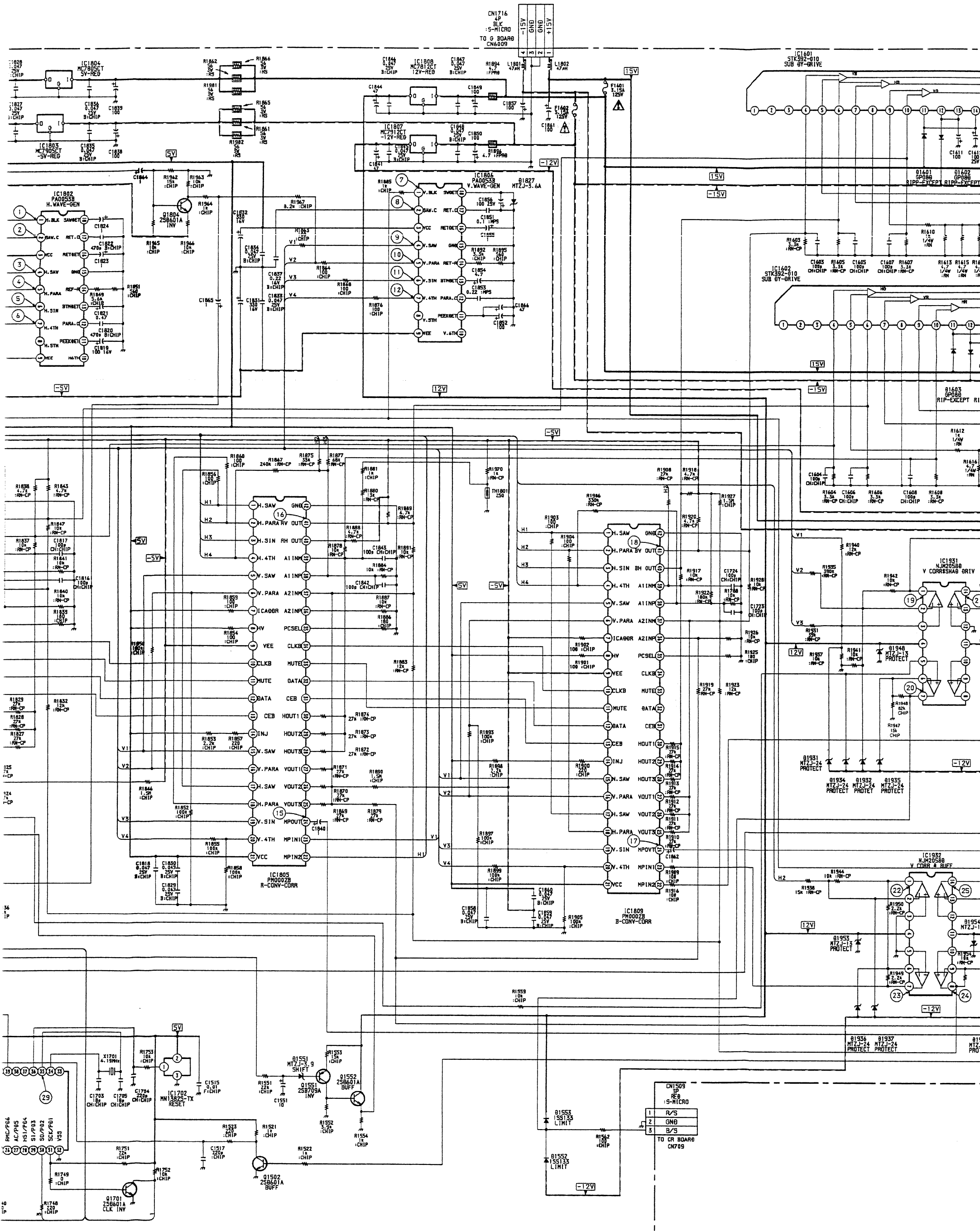


< Component Side >

< Conductor Side >

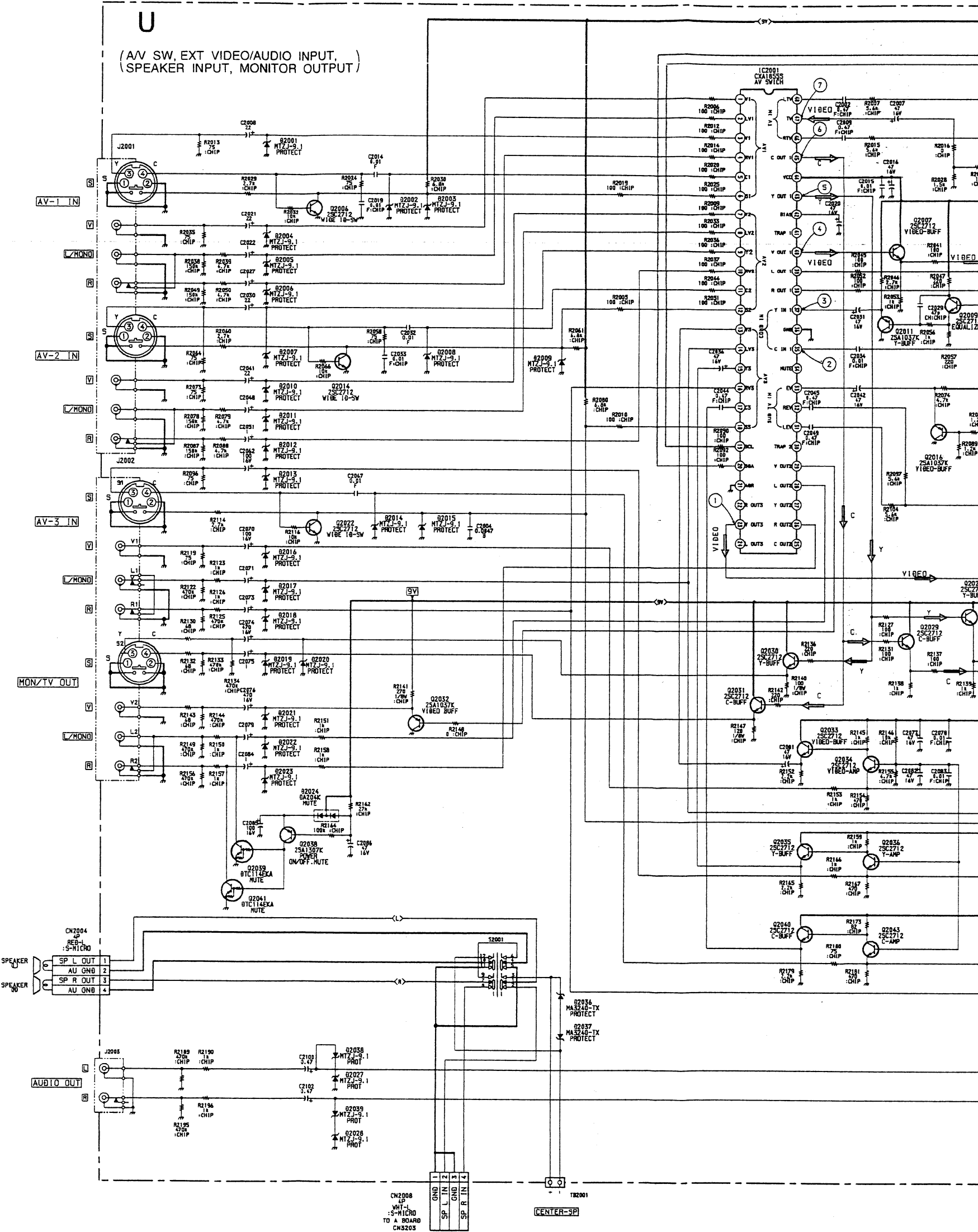
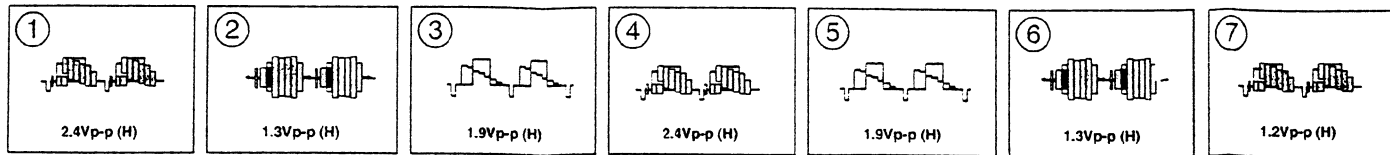








# • U BOARD WAVEFORMS



Schematic diagrams  
← D board

Schematic diagrams  
U board →

### U BOARD IC VOLTAGE LIST

IC2001	1	3.9	15	3.8	33	3.8
	2	3.9	16	3.8	35	3.8
	3	3.9	17	3.8	36	GND
	4	3.9	18	8.0	37	3.8
	5	3.9	19	4.5	38	3.8
	6	8.0	20	4.5	39	3.8
	7	3.8	21	GND	40	3.8
	8	3.8	23	3.8	42	3.8
	9	3.8	26	3.8	43	3.8
	10	3.8	28	3.8	44	9.4
	11	3.8	29	3.8	45	3.8
	12	8.0	30	3.8	46	3.8
	13	3.8	31	3.8	47	3.8
	14	3.8	32	3.8	48	3.8

All Voltage are in V.

### U BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q2006	0	8.0	GND
Q2007	3.8	9.4	3.1
Q2009	3.8	5.3	3.1
Q2011	3.1	GND	3.7
Q2014	0	8.0	GND
Q2016	1.8	GND	2.5
Q2022	0	8.0	GND
Q2027	3.8	9.4	3.1
Q2028	3.8	9.4	3.1
Q2029	3.8	9.4	3.1
Q2030	3.8	9.4	3.1
Q2031	3.8	9.4	3.1
Q2032	3.8	GND	4.4
Q2033	4.5	9.4	3.9
Q2034	2.6	4.5	1.9
Q2035	4.5	9.4	3.9
Q2036	2.6	4.5	1.9
Q2038	7.9	0	8.3
Q2039	0	0	GND
Q2040	4.5	9.4	3.9
Q2041	0	0	GND
Q2043	2.6	4.5	1.9

All Voltage are in V.

### E BOARD

DIODE	*	D926	D-2	③
D801	C-7	D927	B-2	④
D802	C-7	D929	B-4	④
D803	D-5			
D804	A-10	IC901	D-3	
D805	D-10	IC902	C-2	
D806	B-1	IC903	B-3	
D807	D-7	IC904	D-2	
D808	F-8	IC905	F-4	
D809	A-1	IC906	F-4	
D810	F-10			
D812	E-2	TRANSISTOR		*
D814	D-5	Q801	E-5	
D816	D-4	Q802	B-7	
D817	E-1	Q803	C-7	
D818	E-1	Q806	E-9	
D819	E-3	Q807	F-3	①
D901	C-2	Q808	F-7	①
D904	B-2	Q809	E-2	①
D905	D-1	Q810	D-4	①
D907	B-1	Q811	F-1	①
D908	C-2	Q813	E-1	①
D909	B-7	Q810	C-3	①
D910	C-2	Q802	C-3	①
D911	C-2	Q804	D-3	①
D912	C-1	Q805	D-3	①
D913	B-3	Q806	B-2	①
D914	B-3	Q807	D-3	①
D915	B-4	Q808	B-1	①
D916	A-3	Q809	D-1	①
D917	C-3	Q810	A-4	①
D918	B-4	Q811	A-4	①
D919	C-1	Q812	A-2	①
D920	A-5	Q813	F-4	①
D921	G-4	Q814	C-2	①
D922	F-4	Q815	D-2	①
D923	G-4	Q816	B-4	①
D924	D-3	Q817	B-4	①

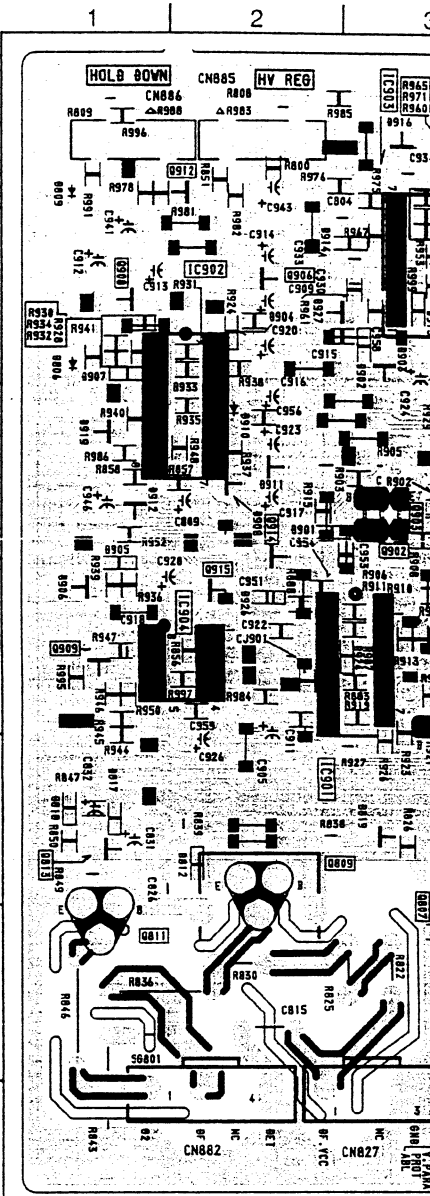


#### NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

### - E BOARD -

E [H/V]

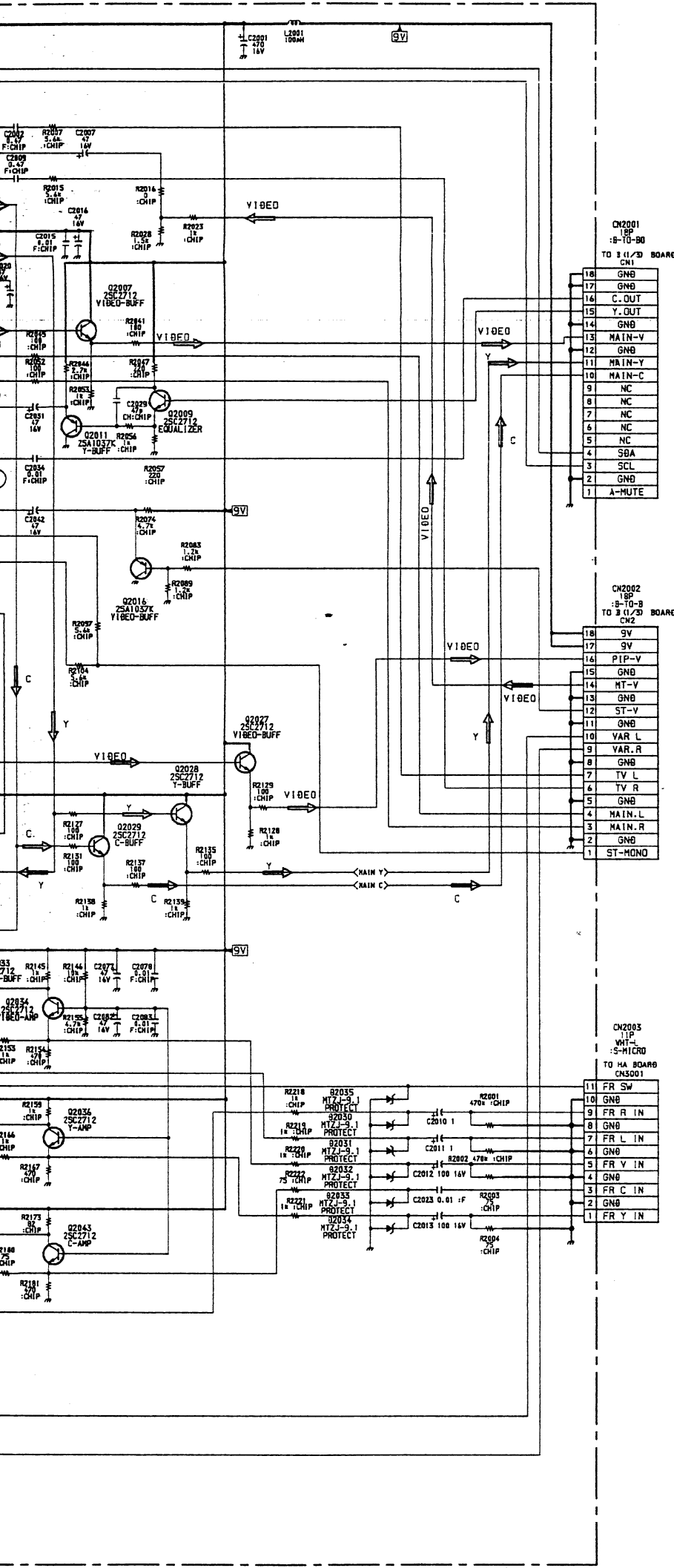
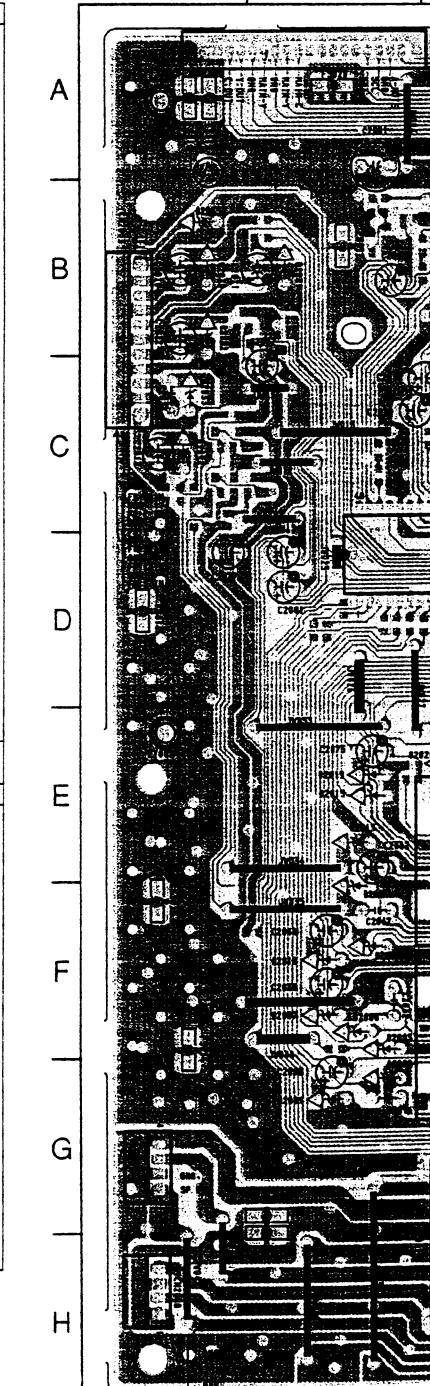


### U

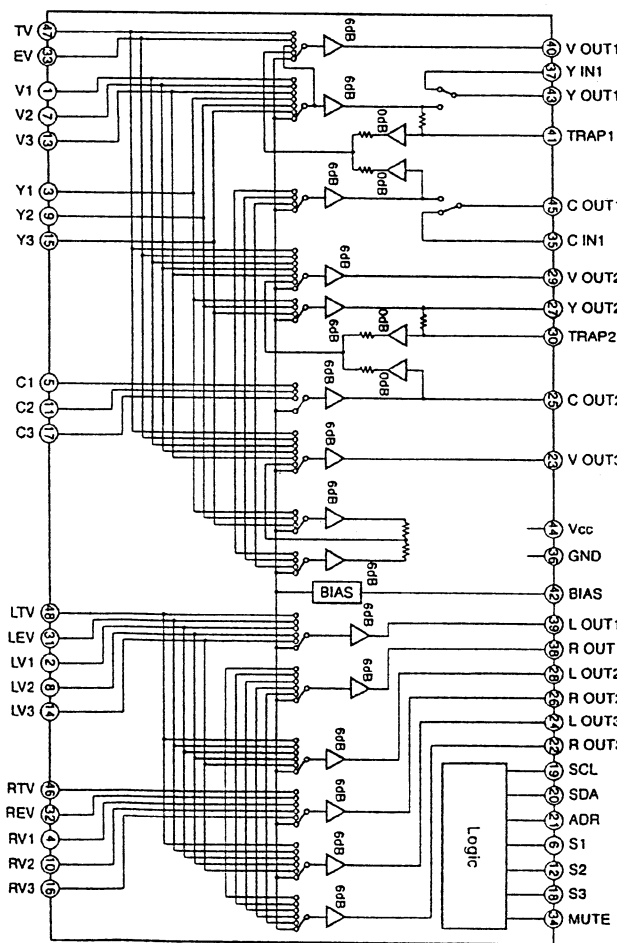
AV SW, EXT VIDEO/AUDIO SPEAKER OUTPUT, MONITOR

### - U BOARD -

1 2

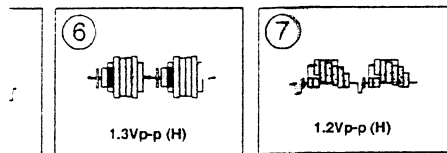


### U BOARD : IC2001 CXA1855S



### U BOARD

DIODE	*
D2001	G-2.G-9
D2002	G-2.G-9
D2003	F-2.G-9
D2004	G-3.G-8
D2005	G-4.G-7
D2006	G-5.G-7
D2007	F-2.F-9
D2008	F-2.F-9
D2009	F-2.F-9
D2010	F-2.F-9
D2011	E-3.E-8
D2012	G-5.G-6
D2013	E-2.E-9
D2014	F-2.F-9
D2015	E-2.E-9
D2016	E-4.E-8
D2017	E-4.E-7
D2018	E-4.E-7
D2019	E-2.E-9
D2020	E-3.E-9
D2021	E-3.E-8
D2022	E-4.E-7
D2023	C-5.C-6
D2024	D-7
D2027	G-5.G-6
D2028	H-5.H-6
D2030	B-1.B-10
D2031	B-2.B-10
D2032	B-1.B-10
D2033	C-1.C-10
D2034	C-1.C-10
D2035	B-1.B-10
D2036	H-7
D2037	G-7
IC	*
IC2001	D-8
TRANSISTOR	*
Q2006	G-8
Q2007	C-8
Q2009	B-8
Q2011	B-8
Q2014	F-8
Q2016	C-8
Q2022	F-8
Q2027	D-8
Q2028	B-8
Q2029	B-8
Q2030	D-7
Q2031	D-7
Q2032	E-8
Q2033	B-9
Q2034	B-10
Q2035	C-10
Q2036	C-10
Q2038	E-6
Q2039	E-7
Q2040	C-10
Q2041	E-6
Q2043	C-10



U BOARD IC VOLTAGE LIST											
IC2001	1	3.9		15	3.8		33	3.8			
	2	3.9		16	3.8		35	3.8			
	3	3.9		17	3.8		36	GND			
	4	3.9		18	8.0		37	3.8			
	5	3.9		19	4.5		38	3.8			
	6	8.0		20	4.5		39	3.8			
	7	3.8		21	GND		40	3.8			
	8	3.8		23	3.8		42	3.8			
	9	3.8		25	3.8		43	3.8			
	10	3.8		26	3.8		44	9.4			
	11	3.8		28	3.8		45	3.8			
	12	8.0		29	3.8		46	3.8			
	13	3.8		31	3.8		47	3.8			
	14	3.8		32	3.8		48	3.8			

All Voltage are in V.

# U BOARD TRANSISTOR VOLTAGE LIST

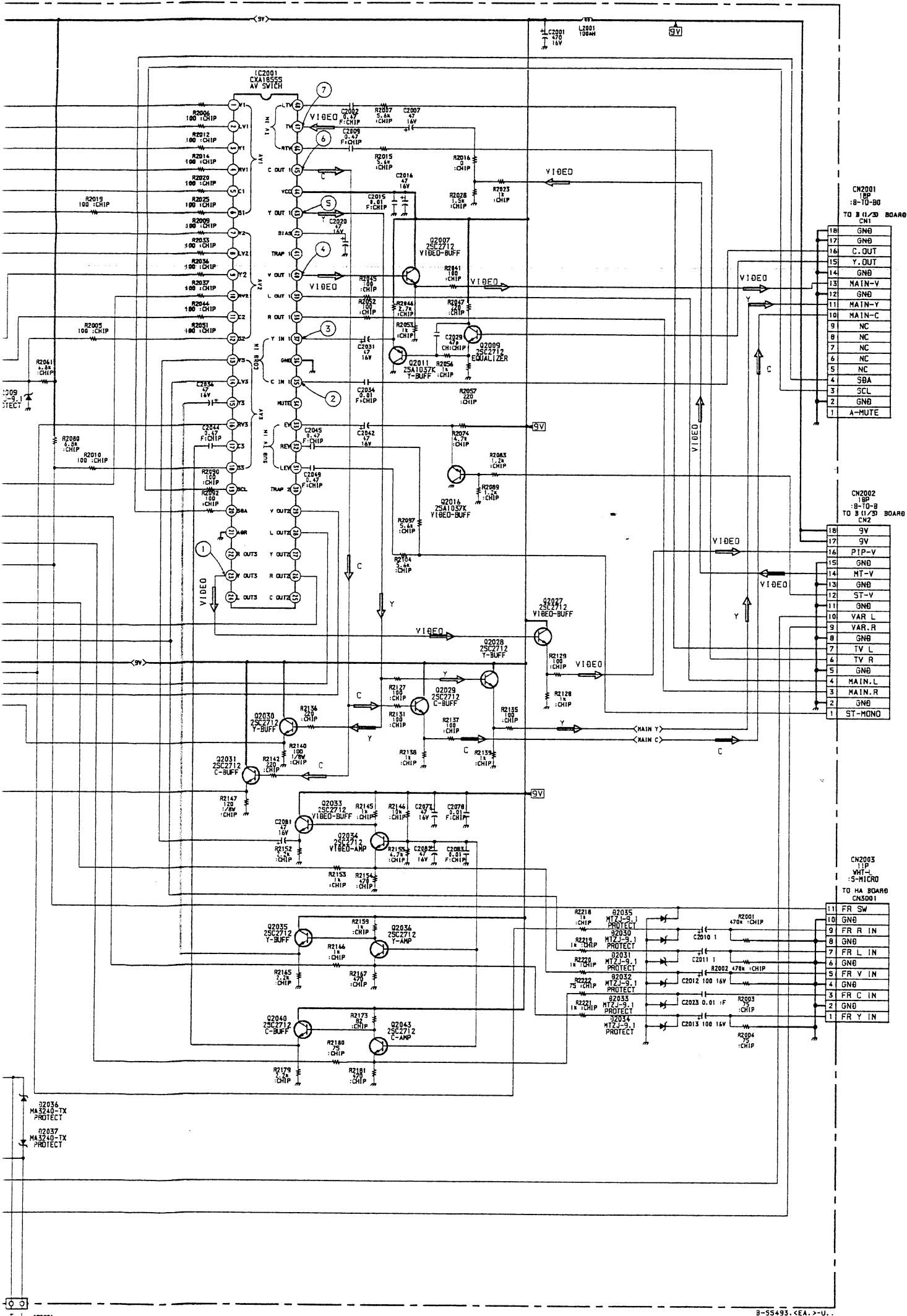
	B	C	E
Q2006	0	8.0	GND
Q2007	3.8	9.4	3.1
Q2009	3.8	5.3	3.1
Q2011	3.1	GND	3.7
Q2014	0	8.0	GND
Q2016	1.8	GND	2.5
Q2022	0	8.0	GND
Q2027	3.8	9.4	3.1
Q2028	3.8	9.4	3.1
Q2029	3.8	9.4	3.1
Q2030	3.8	9.4	3.1
Q2031	3.8	9.4	3.1
Q2032	3.8	GND	4.4
Q2033	4.5	9.4	3.9
Q2034	2.6	4.5	1.9
Q2035	4.5	9.4	3.9
Q2036	2.6	4.5	1.9
Q2038	7.9	0	8.3
Q2039	0	0	GND
Q2040	4.5	9.4	3.9
Q2041	0	0	GND
Q2043	2.6	4.5	1.9

All Voltage are in V.

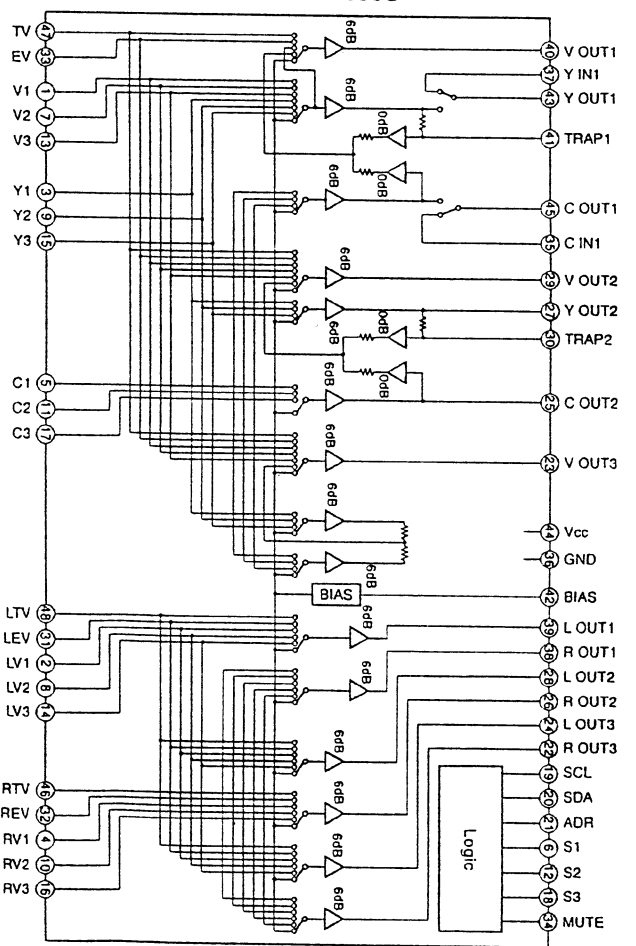
# E BOARD

DIODE				*	D926
D801	C-7	-	-	-	D927
D802	C-7	③	-	-	D929
D803	D-5	-	-	-	IC901
D804	A-10	-	-	-	IC902
D805	D-10	-	-	-	IC903
D806	B-1	-	-	-	IC904
D807	D-7	-	-	-	IC905
D808	F-8	-	-	-	IC906
D809	A-1	-	-	-	TRANS
D810	F-10	-	-	-	Q801
D812	E-2	③	-	-	Q802
D814	D-5	-	-	-	Q803
D816	D-4	③	-	-	Q806
D817	E-1	③	-	-	Q807
D818	E-1	③	-	-	Q808
D819	E-3	③	-	-	Q809
D901	C-2	③	-	-	Q810
D904	B-2	③	-	-	Q811
D905	D-1	③	-	-	Q813
D907	B-1	③	-	-	Q901
D908	C-2	③	-	-	Q902
D909	B-7	-	-	-	Q903
D910	C-2	-	-	-	Q904
D911	C-2	④	-	-	Q905
D912	C-1	④	-	-	Q906
D913	B-3	③	-	-	Q907
D914	B-3	③	-	-	Q908
D915	B-4	③	-	-	Q909
D916	A-3	③	-	-	Q910
D917	C-3	③	-	-	Q911
D918	B-4	③	-	-	Q912
D919	C-1	④	-	-	Q913
D920	A-5	-	-	-	Q914
D921	G-4	③	-	-	Q915
D922	F-4	③	-	-	Q916
D923	G-4	③	-	-	Q917
D924	D-3	③	-	-	

NOTE:  
The circuit indicated as left contains high voltage up to 600 Vp-p. Care must be paid to prevent an electric shock during inspection or repairing.

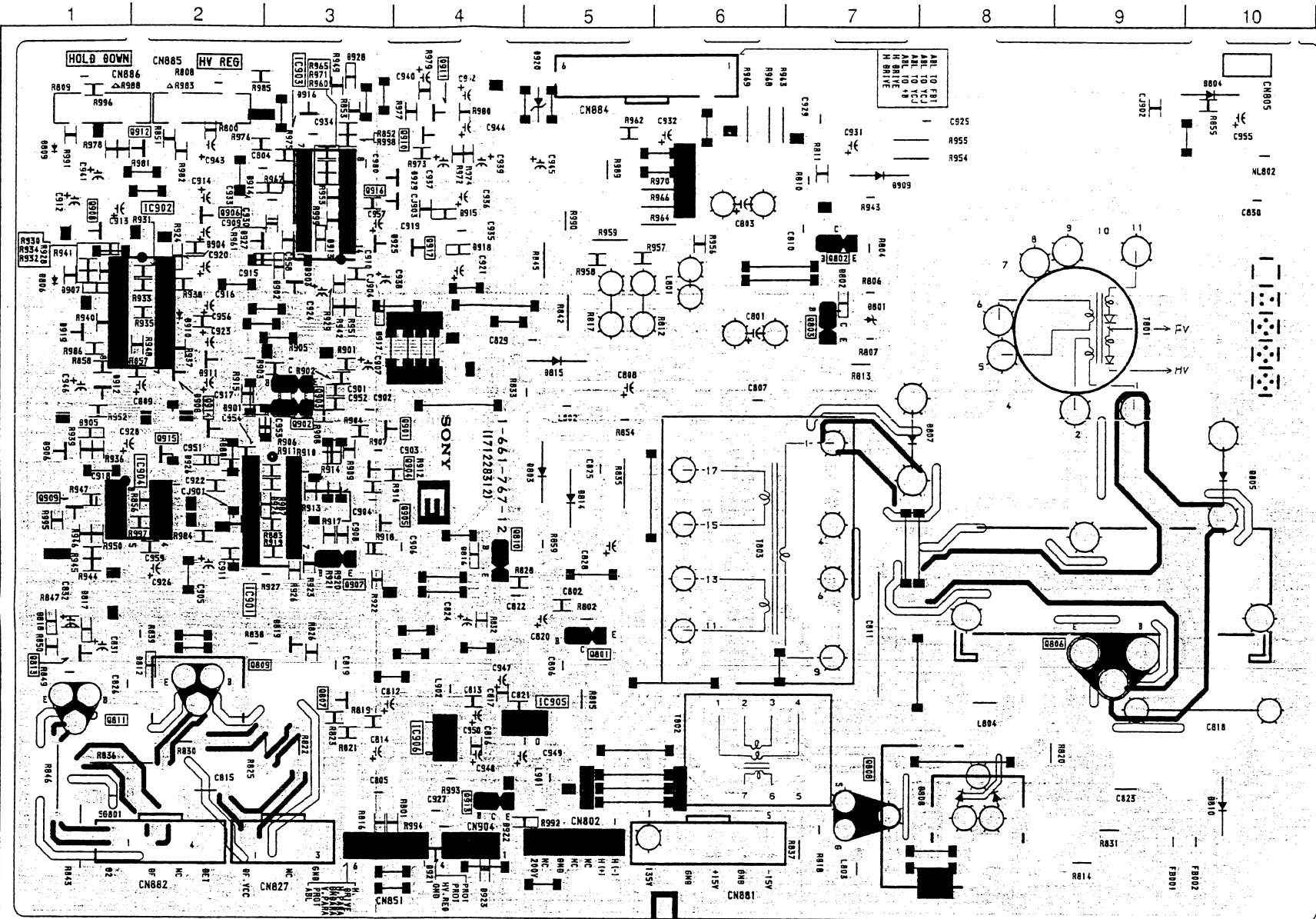


## U BOARD : IC2001 CXA1855S

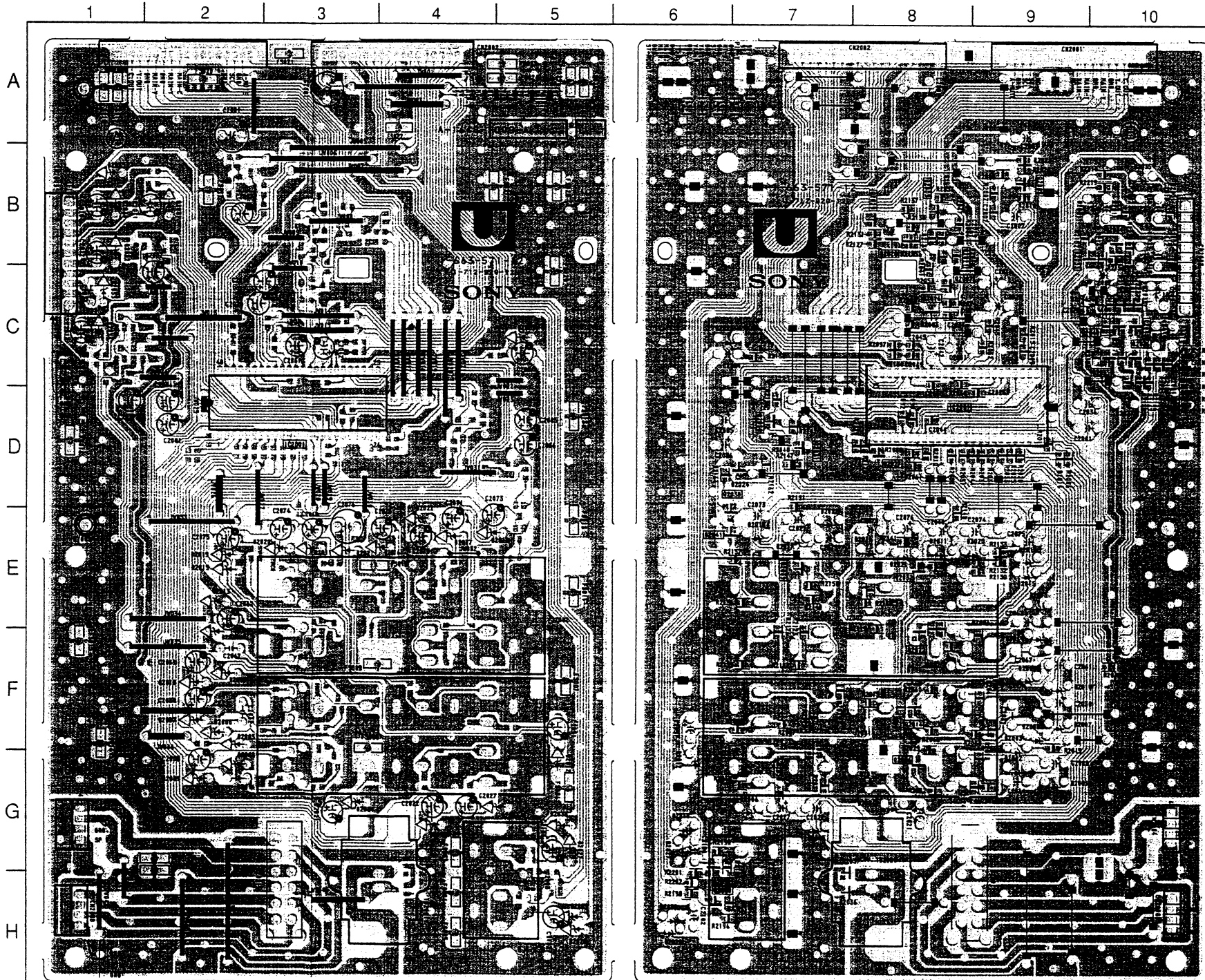


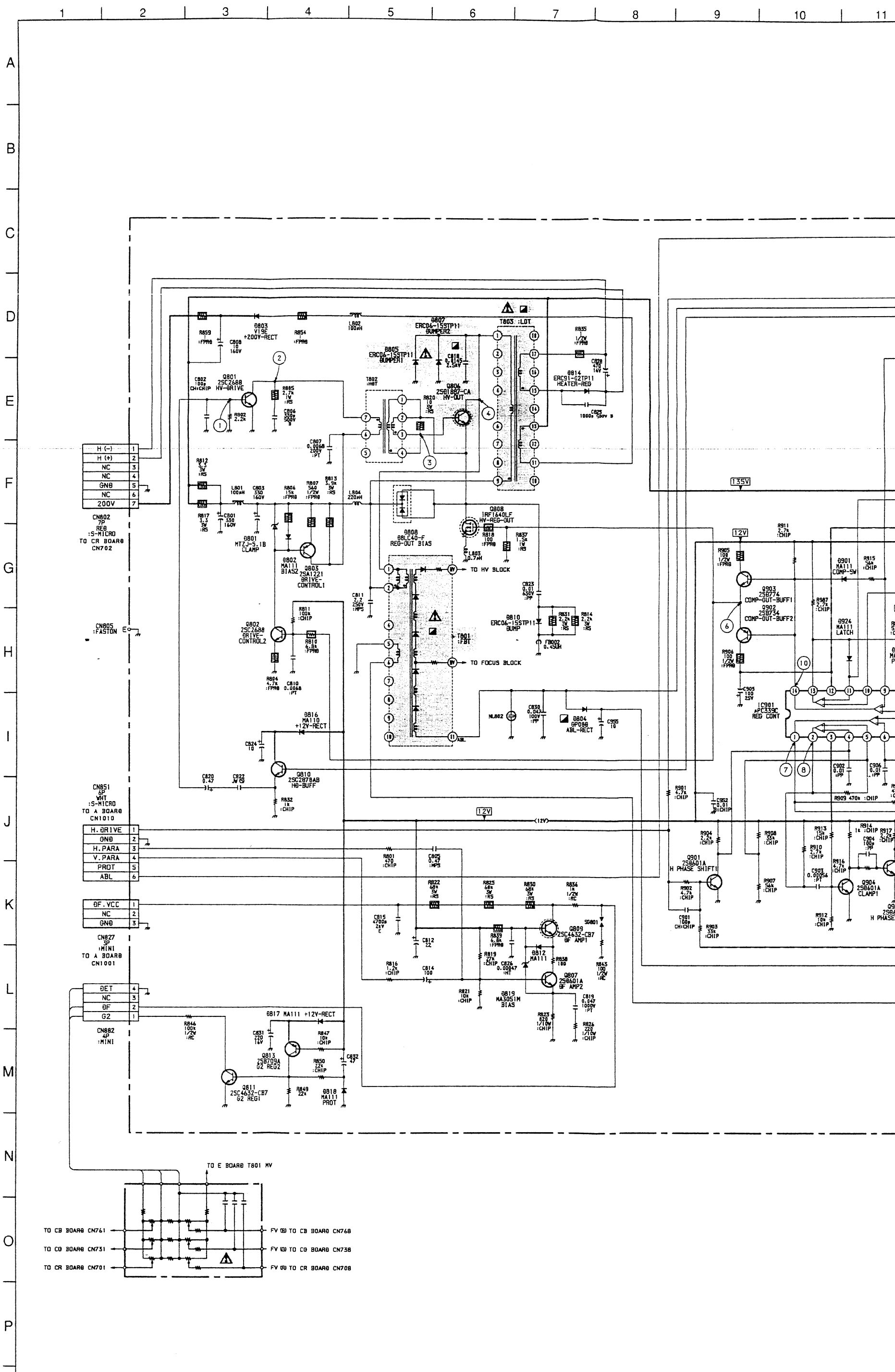
IC		
C901	D-3	
C902	C-2	
C903	B-3	
C904	D-2	
C905	F-4	
C906	F-4	
TRANSISTOR		*
R801	E-5	
R802	B-7	
R803	C-7	
R806	E-9	
R807	F-3	
R808	F-7	
R809	E-2	
R810	D-4	
R811	F-1	
R813	E-1	
R901	C-3	
R902	C-3	
R903	C-3	
R904	D-3	
R905	D-3	
R906	B-2	
R907	D-3	
R908	B-1	
R909	D-1	
R910	A-4	
R911	A-4	
R912	A-2	
R913	F-4	
R914	C-2	
R915	D-2	
R916	B-4	
R917	B-4	

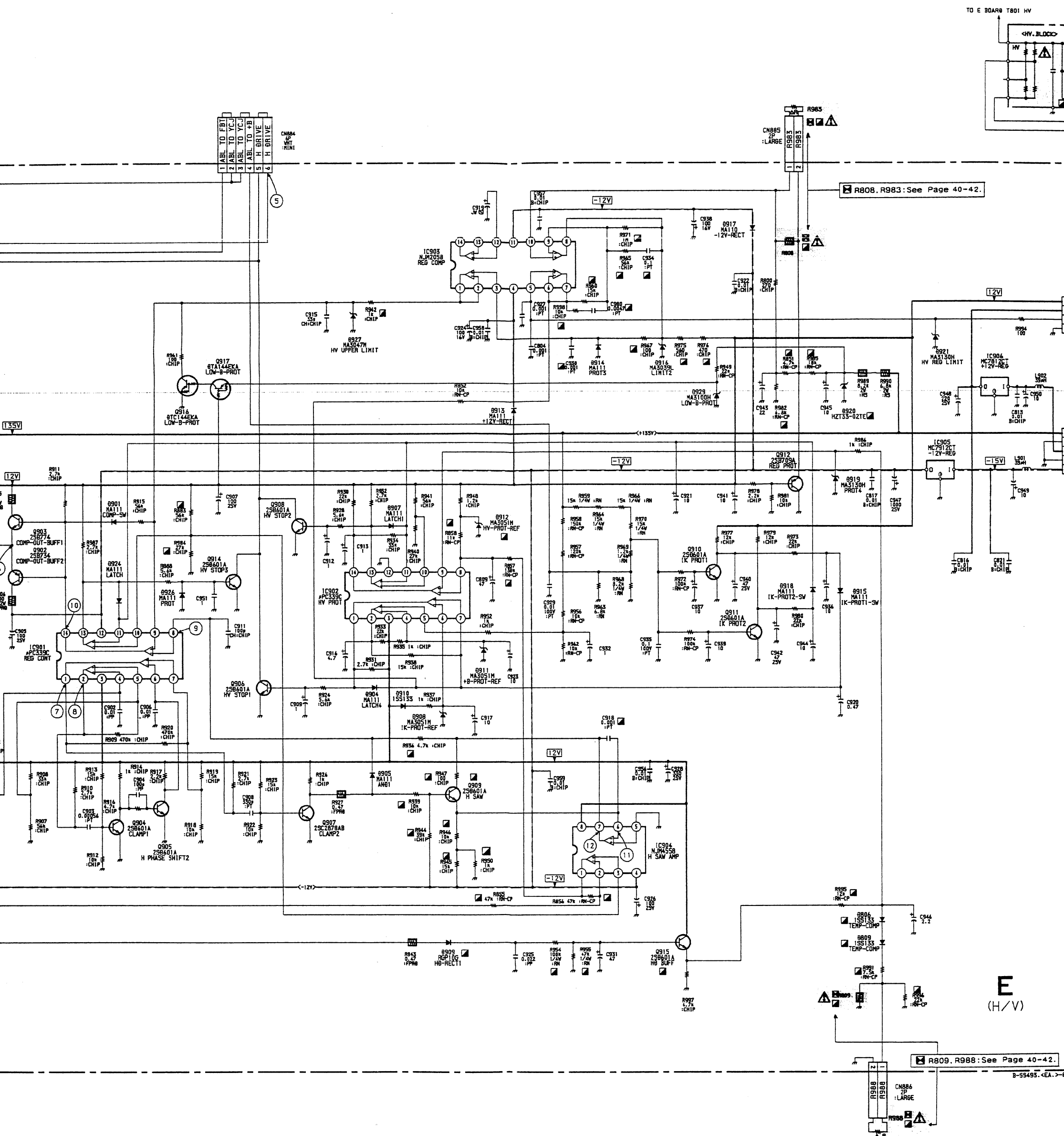
high voltage of over  
an electric shock in



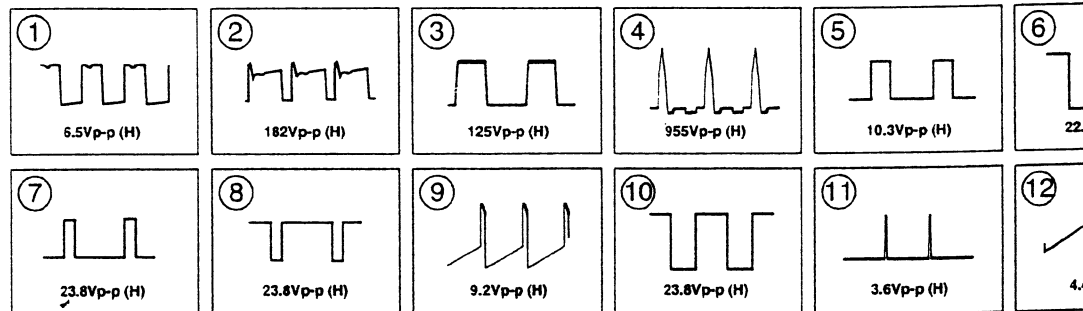
DIODE		*
D2001	G-2,G-9	
D2002	G-2,G-9	
D2003	F-2,G-9	
D2004	G-3,G-8	
D2005	G-4,G-7	
D2006	G-5,G-7	
D2007	F-2,F-9	
D2008	F-2,F-9	
D2009	F-2,F-9	
D2010	F-2,F-9	
D2011	E-3,E-8	
D2012	G-5,G-6	
D2013	E-2,E-9	
D2014	F-2,F-9	
D2015	E-2,E-9	
D2016	E-4,E-8	
D2017	E-4,E-7	
D2018	E-4,E-7	
D2019	E-2,E-9	
D2020	E-3,E-9	
D2021	E-3,E-8	
D2022	E-4,E-7	
D2023	C-5,C-6	
D2024	D-7	
D2027	G-5,G-6	
D2028	H-5,H-6	
D2030	B-1,B-10	
D2031	B-2,B-10	
D2032	B-1,B-10	
D2033	C-1,C-10	
D2034	C-1,C-10	
D2035	B-1,B-10	
D2036	H-7	
D2037	G-7	
IC		
IC2001	D-8	
TRANSISTOR		*
Q2006	G-8	
Q2007	C-8	
Q2009	B-8	
Q2011	B-8	
Q2014	F-8	
Q2016	C-8	
Q2022	F-8	
Q2027	D-8	
Q2028	B-8	
Q2029	B-8	
Q2030	D-7	
Q2031	D-7	
Q2032	E-8	
Q2033	B-9	
Q2034	B-10	
Q2035	C-10	
Q2036	C-10	
Q2038	E-6	
Q2039	E-7	
Q2040	C-10	
Q2041	E-6	
Q2043	C-10	



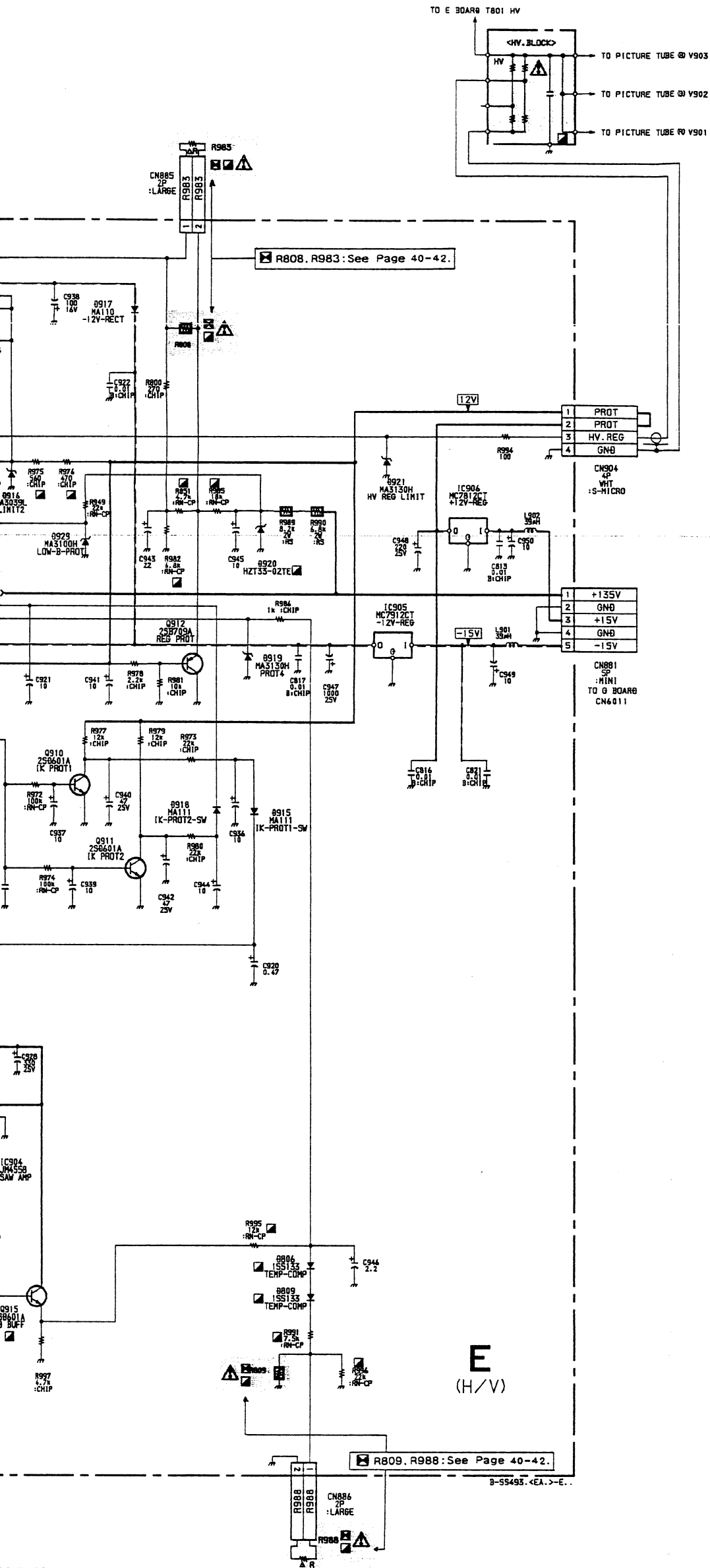




• E BOARD WAVEFORMS







E BOARD IC VOLTAGE LIST

IC901	1	-5.7	IC902	1	0.2	IC903	1	2.4		3	4.1
	2	6.8		2	0		2	2.4		4	-12.5
	3	12.8		3	12.7		3	2.4		5	GND
	4	3.8		4	5.4		4	12.0		6	0.2
	5	8.0		5	5.0		5	7.9		7	2.3
	6	7.5		6	5.4		6	7.9		8	12.7
	7	5.0		7	4.8		7	7.9	IC905	1	-15.0
	8	2.8		8	5.2		8	2.4		G	GND
	9	2.8		9	5.0		9	7.8		O	-12.6
	10	4.1		10	4.2		10	7.8	IC906	1	15.0
	11	0		11	0		11	-11.8		G	GND
	12	-12.6		12	GND		12	3.6		O	12.8
	13	-12.3		13	0.2	IC904	1	3.1			
	14	2.4		14	0		2	4.1			

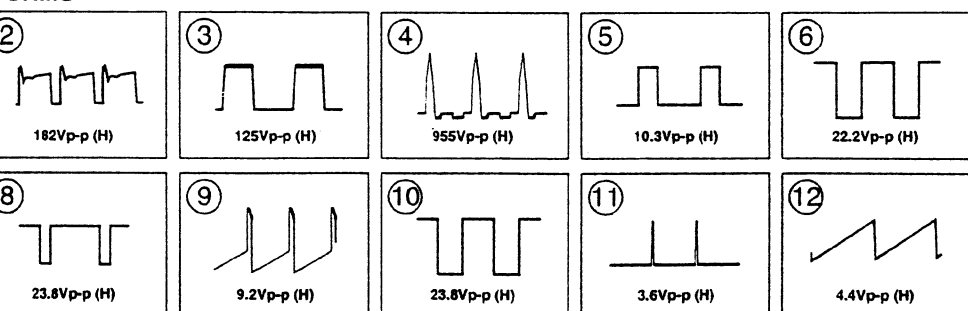
All Voltage are in V.  
Pin numbers which are not described are not used.

E BOARD  
TRANSISTOR VOLTAGE LIST

	B	C	E
Q801	-3.0	94.3	GND
Q802	2.9	136.9	2.5
Q803	136.9	94.6	137.5
Q806	52.4	141.4	52.4
Q807	2.2	5.3	1.6
Q809	6.1	365.0	5.6
Q810	4.2	12.0	5.9
Q811	0	722.0	GND
Q813	12.7	0	12.7
Q901	-0.8	3.8	GND
Q902	2.4	-12.1	2.3
Q903	2.3	12.1	2.3
Q904	0.5	0.9	GND
Q905	0.2	7.5	GND
Q906	0.2	4.2	GND
Q907	0.5	0.7	GND
Q908	0.2	4.2	GND
Q909	-2.2	2.3	0.2
Q910	0.7	0	GND
Q911	0.7	0	GND
Q912	10.4	GND	11.1
Q913	-0.5	0	GND
Q914	-0.6	4.2	GND
Q915	8.8	12.8	8.1
	S	G	D
Q808	0	2.3	52.4

All Voltage are in V.

FORMS

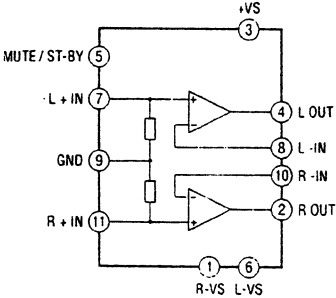


A BOARD  
TRANSISTOR VOLTAGE LIST

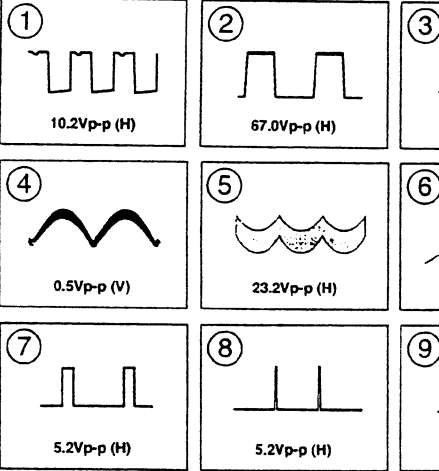
	B	C	E
Q1001	-120.0	0.3	-119.7
Q1002	-3.8	36.5	GND
Q1003	4.3	GND	3.8
Q1004	9.2	1.9	9.8
Q1005	2.2	9.8	1.6
Q1006	2.6	-71.6	3.2
Q1007	2.7	-71.6	3.2
Q1008	1.9	GND	2.6
Q1009	-120.0	-142.1	-119.7
Q1010	-116.6	-142.1	-120.9
Q1011	12.8	0.9	12.7
Q1012	0.8	0.2	GND
Q1013	1.8	12.7	1.5
Q1014	0.8	0.2	GND
Q1015	1.0	GND	1.5
Q1016	GND	1.0	1.0
Q1017	-2.3	12.5	1.0
Q1024	12.7	2.2	12.6
Q1025	1.2	0.3	1.2
Q1026	0.3	0.6	GND
Q3201	0.8	0	GND
Q3204	0	12.8	0
Q3205	0	12.8	0
Q3206	15.2	0	15.3
Q3207	12.8	0	12.8
Q3208	0	7.0	0
Q3209	0.9	0.2	0
Q3210	0	0.8	GND

All Voltage are in V.

A BOARD : IC3201 TDA7265



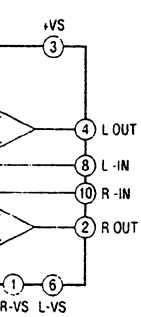
• A BOARD WAVEFORMS



	C	E
20.0	0.3	-119.7
18.8	36.5	GND
17.3	GND	3.8
16.2	2.9	9.8
15.2	9.8	1.6
14.6	-71.6	3.2
13.7	-71.6	3.2
12.9	GND	2.6
10.0	-142.1	-119.7
6.6	-142.1	-120.9
5.8	0.9	12.7
4.8	0.2	GND
3.8	12.7	1.5
2.8	0.2	GND
0	GND	1.5
ND	1.0	1.0
3.3	12.5	1.0
2.7	2.2	12.6
2	0.3	1.2
3	0.6	GND
8	0	GND
	12.8	0
	12.8	0
2	0	15.3
8	0	12.8
	7.0	0
9	0.2	0
	0.8	GND

oltages are in V.

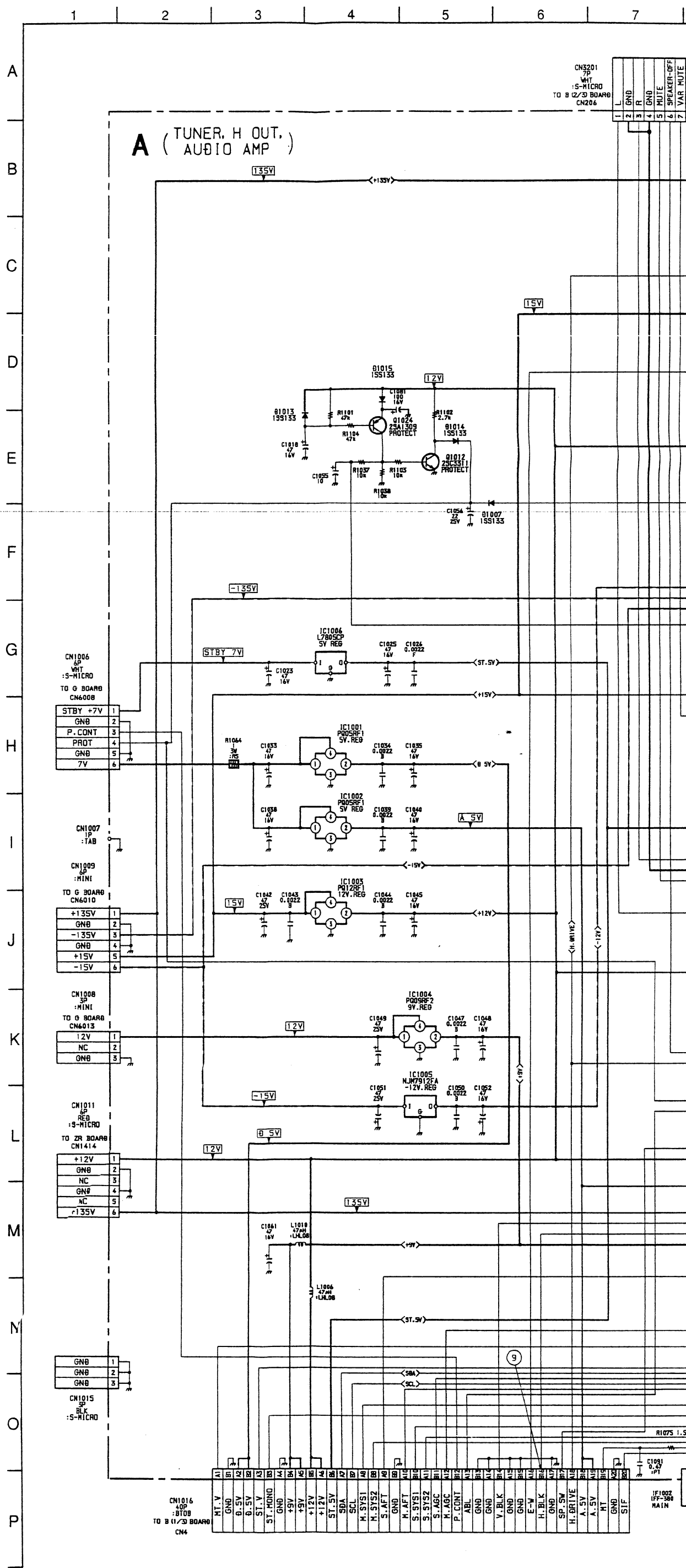
RD : IC3201 TDA7265



<p>②</p>  <p>67.0Vp-p (H)</p>	<p>③</p>  <p>935Vp-p (H)</p>
<p>⑤</p>  <p>23.2Vp-p (H)</p>	<p>⑥</p>  <p>17.1Vp-p (H)</p>
<p>⑧</p>  <p>5.2Vp-p (H)</p>	<p>⑨</p>  <p>4.6Vp-p (H)</p>



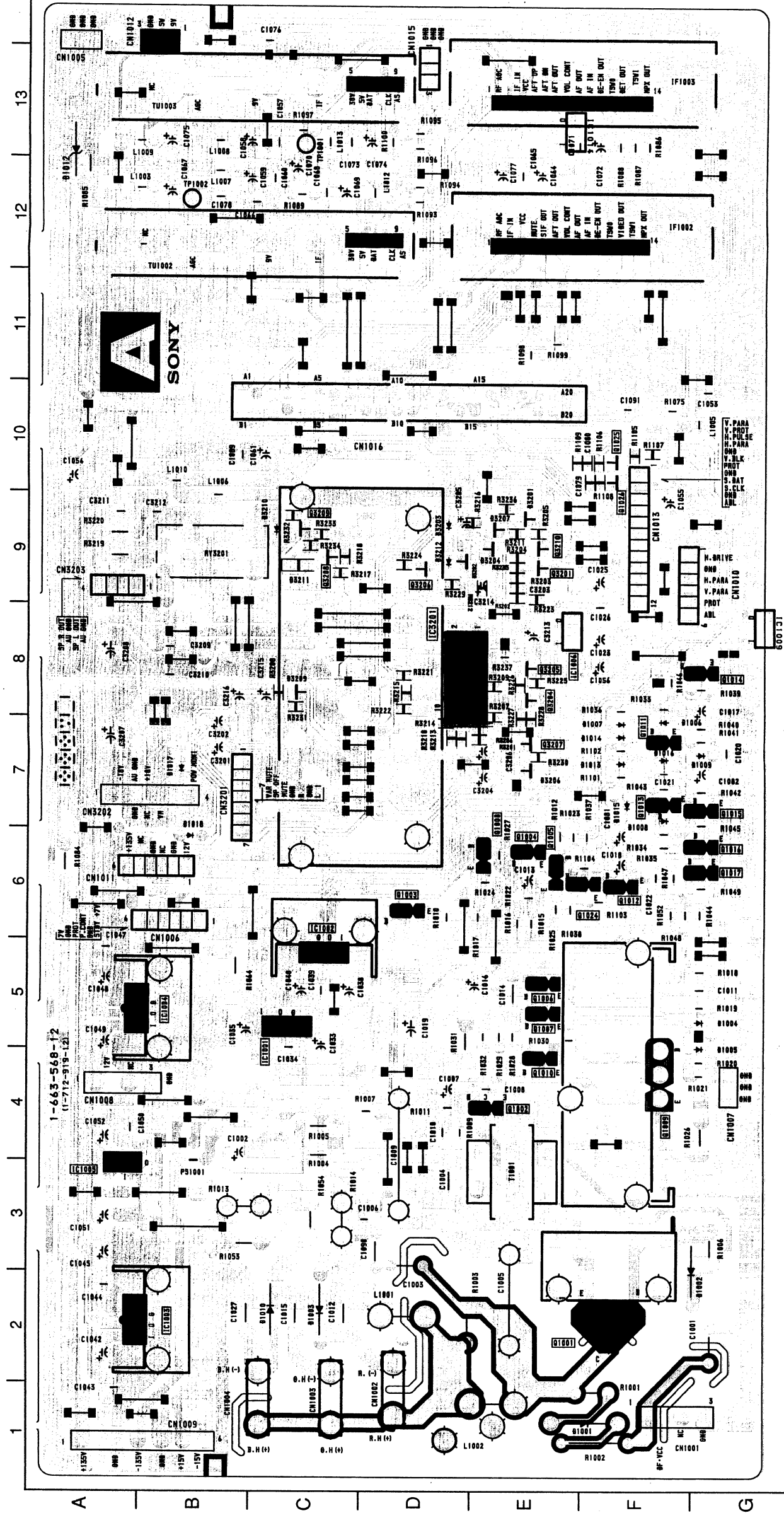
## A BOARD IC VOLTAGE LIST





# **A** TUNER, H OUT, AUDIO AMP

- A BOARD -

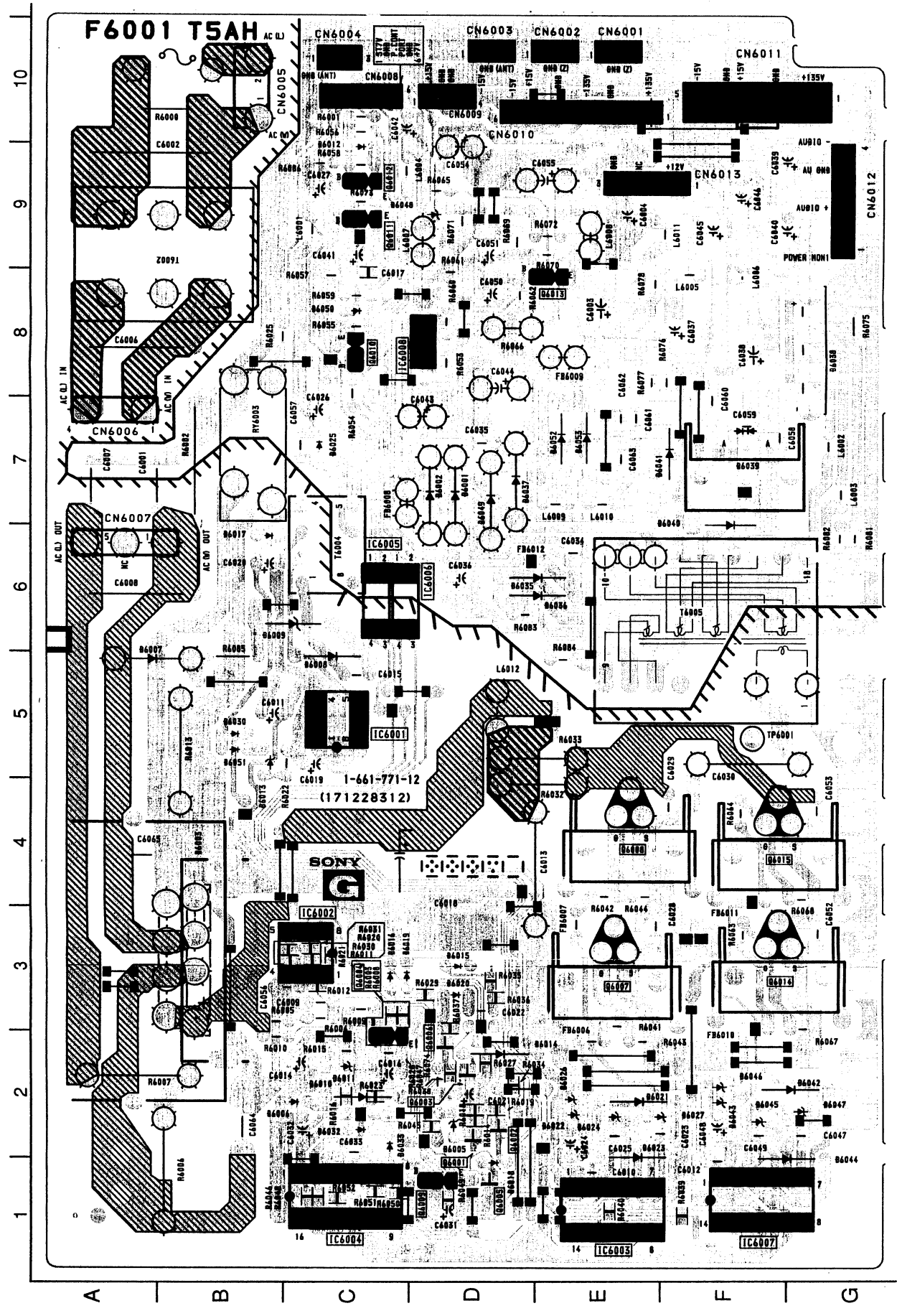


## **A BOARD**

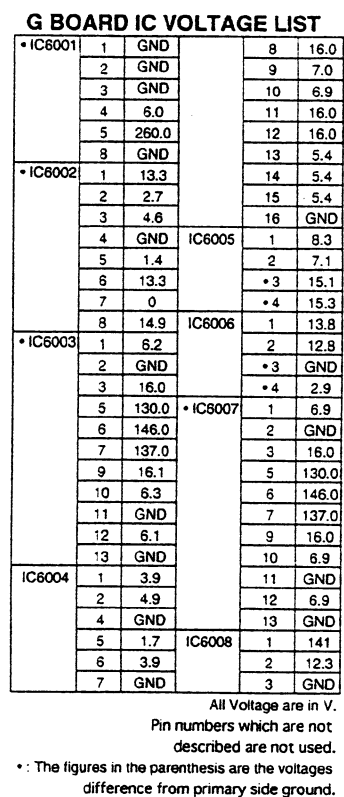
DIODE	*	D1018	B-6	IC1005	A-3	Q1013	F-7
D1001	F-1	D3201	E-9	IC1006	E-8	Q1014	G-8
D1002	G-2	D3202	D-9	IC3201	D-8	Q1015	G-7
D1003	C-2	D3203	D-9	TRANSISTOR			
D1004	G-5	D3204	E-9	Q1001	F-2	Q1016	G-6
D1005	G-4	D3205	E-7	Q1002	E-4	Q1017	G-6
D1006	F-7	D3206	E-9	Q1003	D-6	Q1024	F-6
D1007	F-7	D3207	E-9	Q1004	E-6	Q1025	F-10
D1008	F-7	D3208	C-8	Q1005	E-6	Q1026	F-10
D1009	G-7	D3209	C-9	Q1006	E-5	Q3201	E-9
D1010	A-12	D3210	D-9	Q1007	E-5	Q3202	E-8
D1011	F-7	D3211	C-5	Q1008	E-6	Q3203	D-9
D1012	F-7	D3212	C-5	Q1009	F-4	Q3204	E-7
D1013	F-7	D3213	C-5	Q1010	E-4	Q3205	C-9
D1014	F-7	D3214	C-5	Q1011	F-7	Q3206	C-9
D1015	F-7	D3215	C-5	Q1012	F-6	Q3207	E-9
D1016	F-7	D3216	C-5			Q3208	C-9
D1017	B-7	D3217	A-5			Q3209	C-9
						Q3210	E-9

**G** [POWER SUPPLY]  
- G BOARD -

G BOARD			
DIODE	*		
D6001	D-7	D6042	G-2
D6002	D-7	D6043	F-2
D6003	B-3	D6044	F-1
D6005	D-2	D6045	F-2
D6006	C-2	D6046	F-2
D6007	A-5	D6047	G-2
D6008	C-5	D6048	D-9
D6009	C-6	D6049	D-7
D6010	C-2	D6050	C-8
D6011	C-2	D6051	B-5
D6012	C-9	D6052	E-7
D6013	B-5	D6053	E-7
D6014	D-2	IC	
D6015	D-3	IC6001	C-5
D6016	C-3	IC6002	C-3
D6017	B-6	IC6003	E-1
D6018	D-1	IC6004	C-1
D6019	C-3	IC6005	C-6
D6020	D-3	IC6006	C-6
D6021	E-2	IC6007	F-1
D6022	E-2	IC6008	D-8
D6023	E-1	TRANSISTOR	
D6024	E-2	Q6001	D-2
D6025	C-7	Q6002	D-2
D6026	E-2	Q6003	D-2
D6027	E-2	Q6004	C-2
D6028	B-5	Q6005	D-1
D6029	C-2	Q6006	D-2
D6030	B-5	Q6007	E-3
D6031	C-2	Q6008	E-4
D6032	C-2	Q6009	D-1
D6033	C-2	Q6010	C-8
D6034	E-6	Q6011	C-9
D6035	E-6	Q6012	C-9
D6036	E-6	Q6013	E-8
D6037	D-7	Q6014	F-3
D6038	G-8	Q6015	F-4
D6039	F-7		
D6040	F-7		
D6041	F-7		







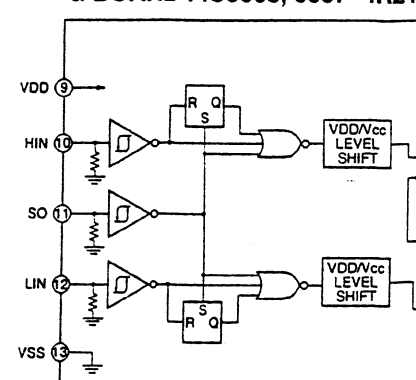
	B	C	E
* Q6001	0.8	0	GND
* Q6002	0	15.4	GND
* Q6003	*	GND	15.4
* Q6004	0	4.9	GND
* Q6005	3.9	GND	2.9
* Q6006	0	2.8	GND
* Q6009	15.3	16.0	16.1
Q6010	0.8	0.2	GND
Q6011	0	8.3	GND
Q6012	8.3	0	8.3
Q6013	140.5	0	140.7
	S	G	D
* Q6007	GND	6.2	62.8
* Q6008	130.0	136.0	259.0
* Q6014	GND	6.8	130.0
* Q6015	130.0	136.0	259.0

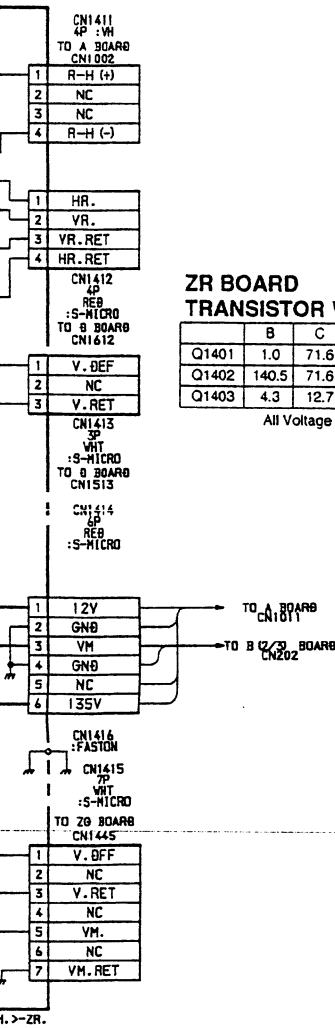
All Voltage are in V.

\* : The figures in the parenthesis are the difference from primary side ground

\* : Can not measured.

[illegible]

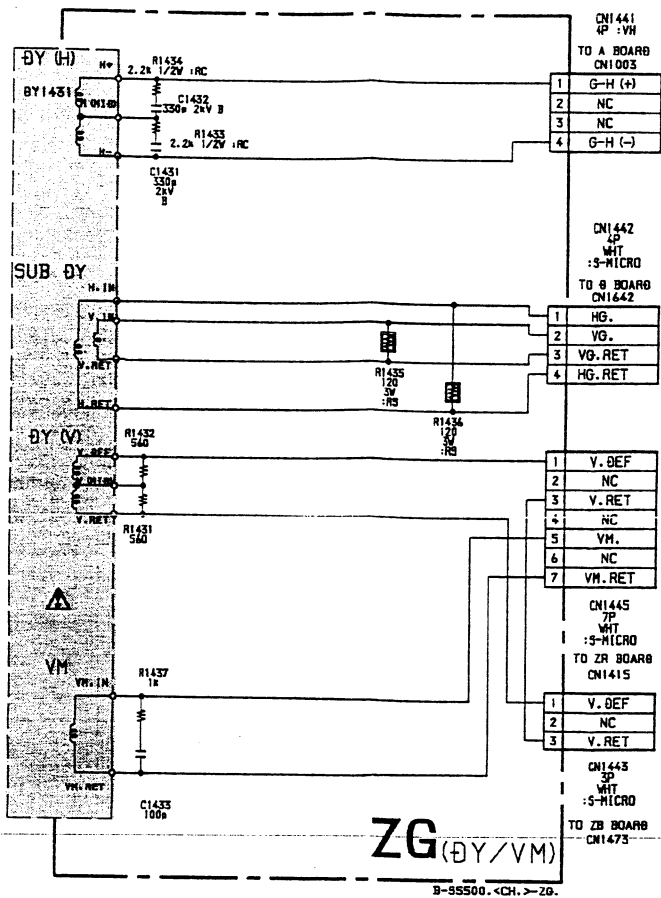




ZR BOARD  
TRANSISTOR VOLTAGE LIST

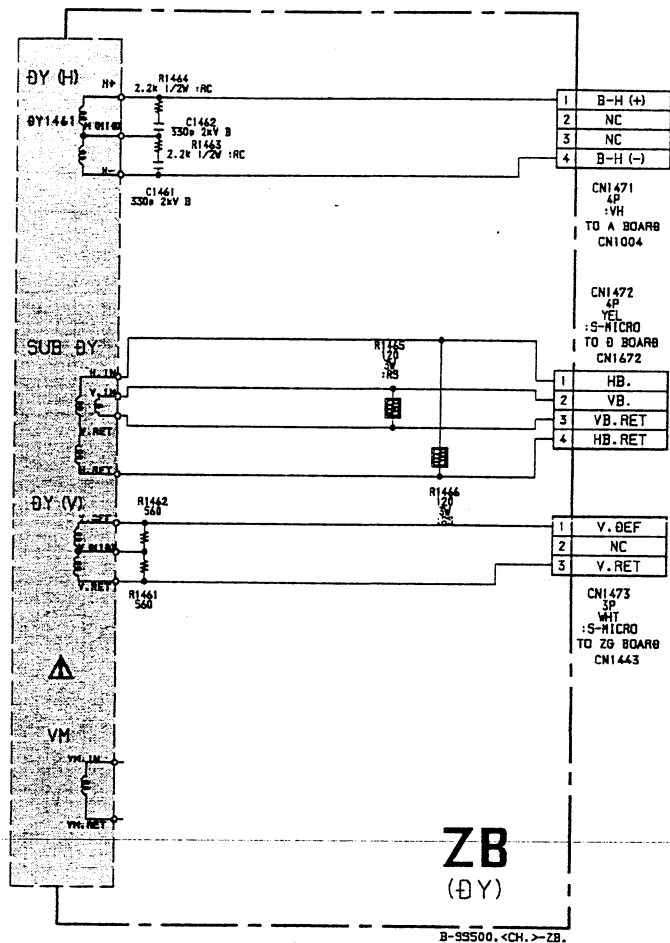
	B	C	E
Q1401	1.0	71.6	0.4
Q1402	140.5	71.6	141.1
Q1403	4.3	12.7	3.7

All Voltage are in V.



ZG (DY/VM)

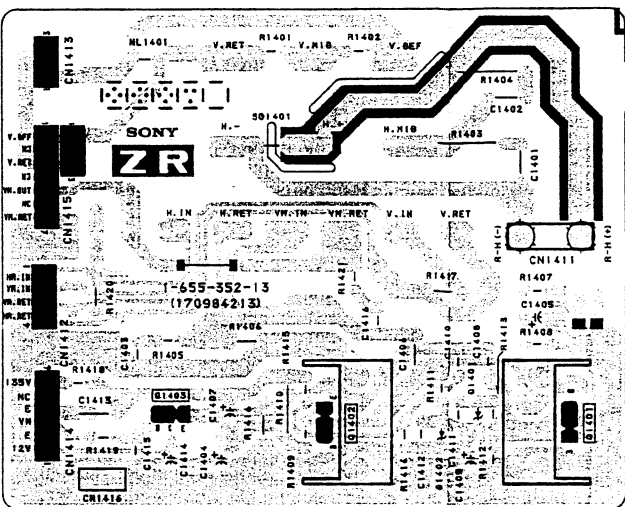
B-55500, <CH. > ZG.



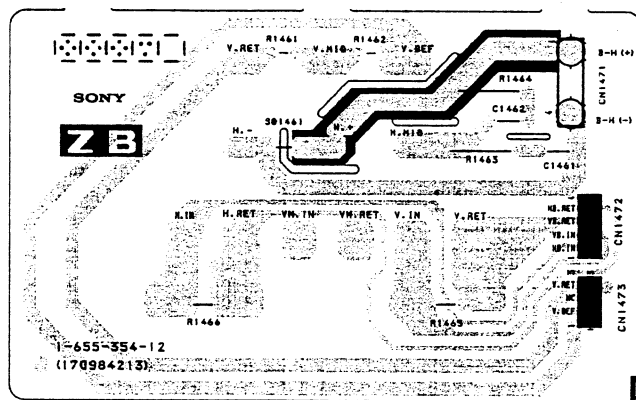
ZB (DY)

B-55500, <CH. > ZB.

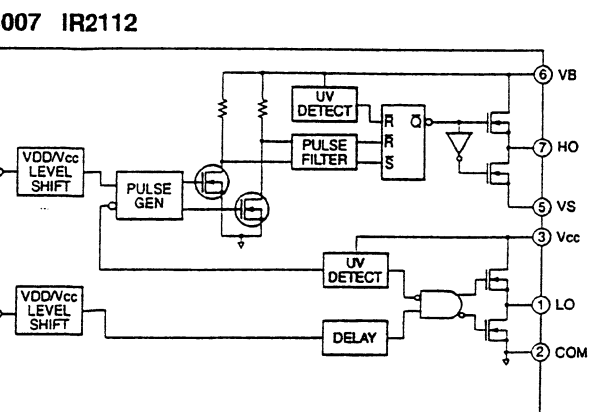
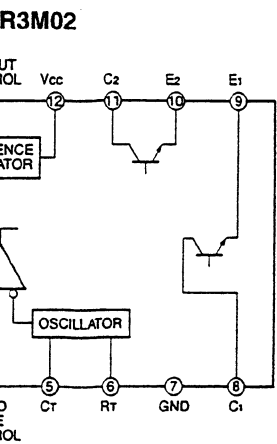
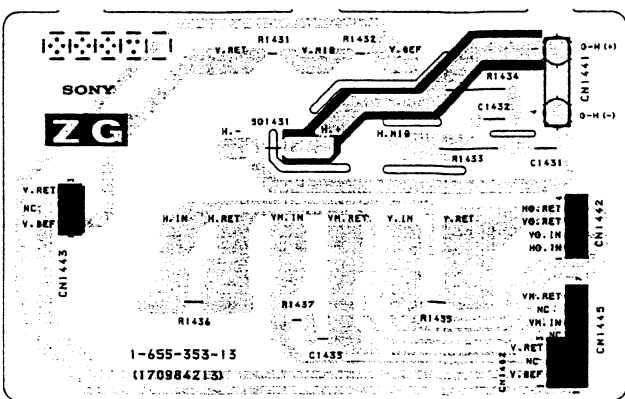
ZR [DY/VM]  
- ZR BOARD -

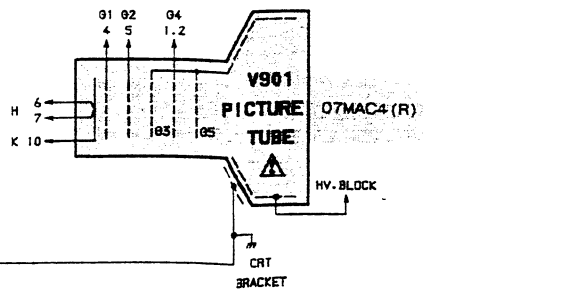
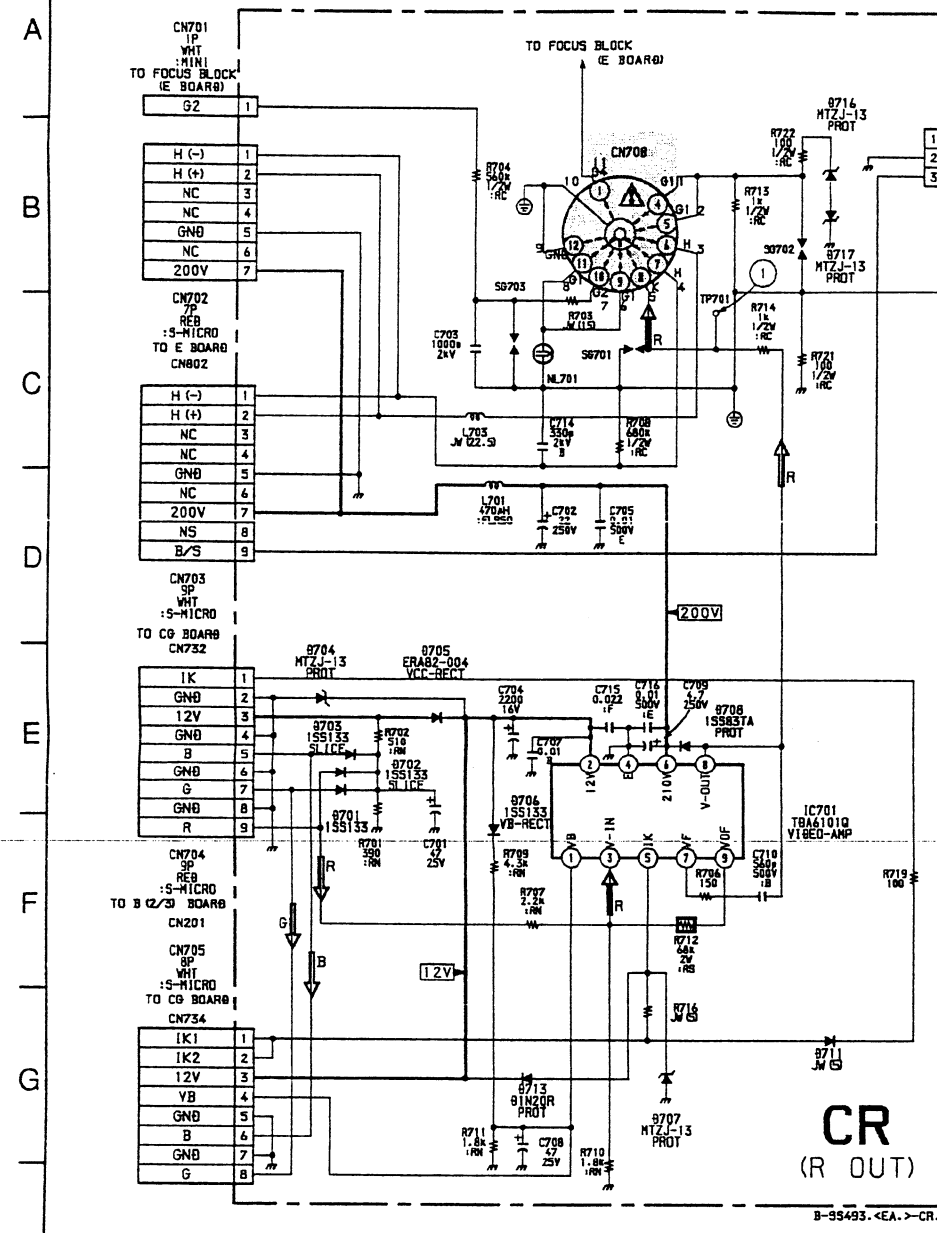


ZB [DY]  
- ZB BOARD -

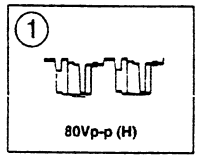


ZG [DY/VM]  
- ZG BOARD -

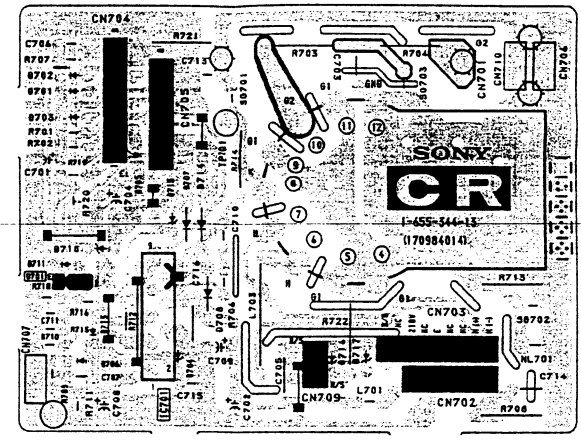




• CR BOARD WAVEFORM



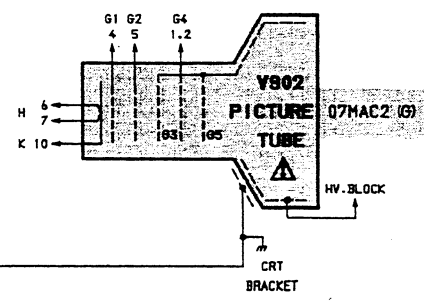
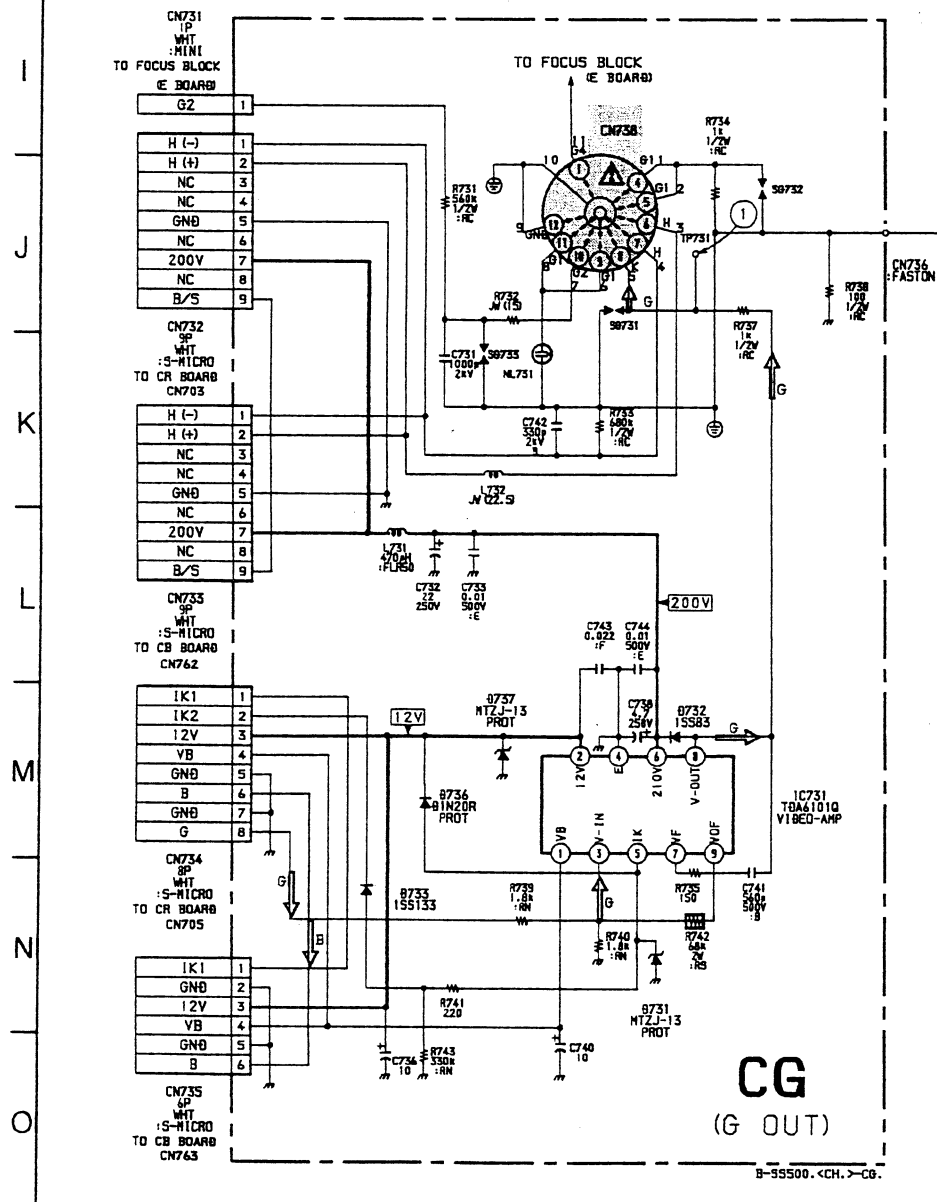
**CR** [R OUT]  
- CR BOARD -



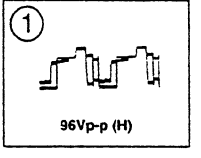
CR BOARD IC VOLTAGE LIST

IC701	1	3.3
IC701	2	12.5
IC701	3	3.1
IC701	4	GND
IC701	5	10.0
IC701	6	209.0
IC701	7	169.0
IC701	8	169.0
IC701	9	168.0

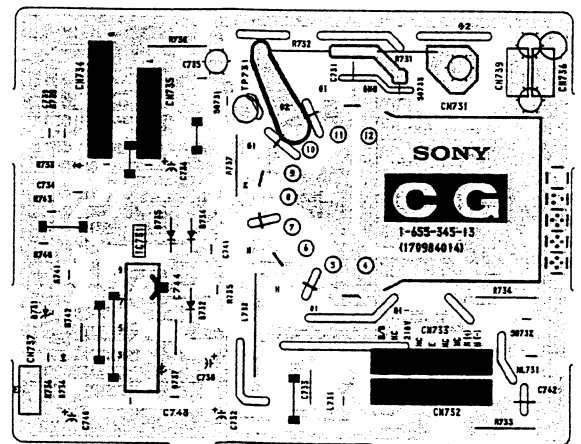
All Voltage are in V.



• CG BOARD WAVEFORM



**CG** [G OUT]  
- CG BOARD -

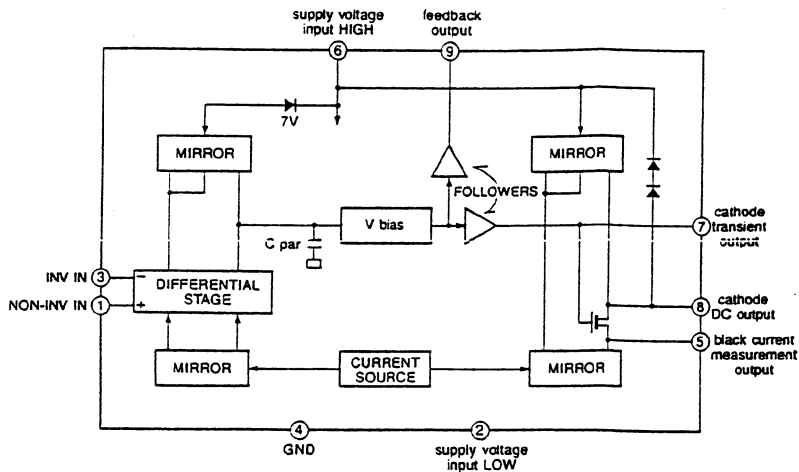


CG BOARD IC VOLTAGE LIST

IC731	1	3.3
IC731	2	12.5
IC731	3	3.0
IC731	4	GND
IC731	5	10.0
IC731	6	209.0
IC731	7	162.0
IC731	8	163.0
IC731	9	161.0

All Voltage are in V.

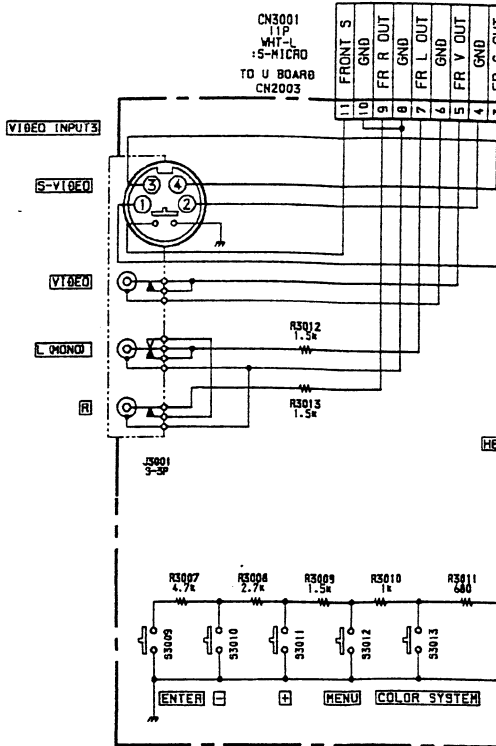
CR BOARD : IC701 TDA6101Q  
CG BOARD : IC731 TDA6101Q  
CB BOARD : IC761 TDA6101Q



CR BOARD  
IC VOLTAGE LIST

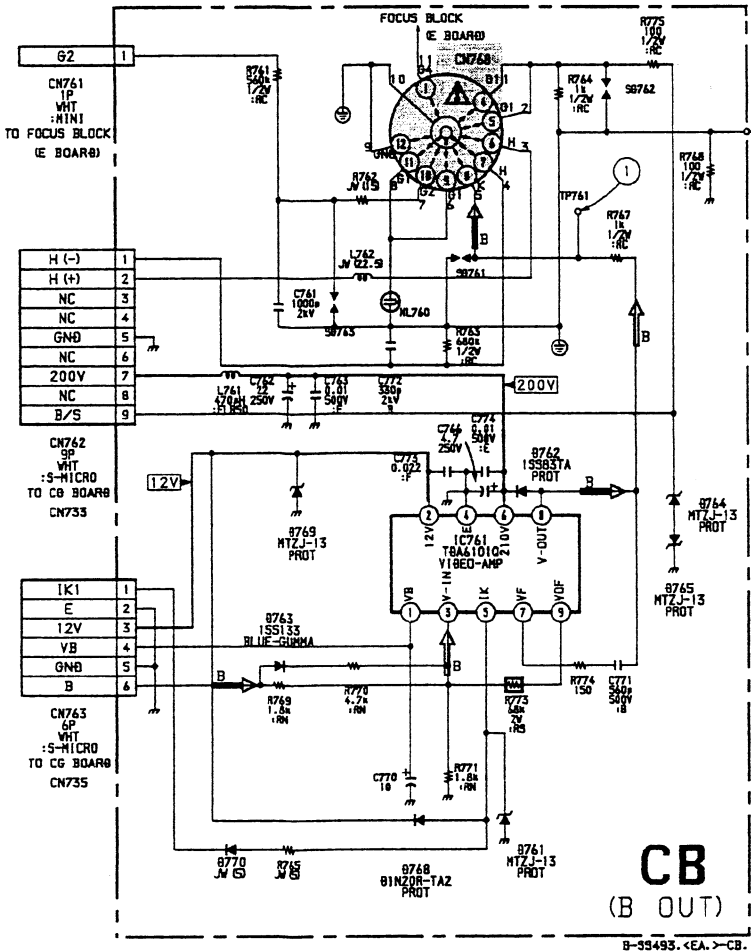
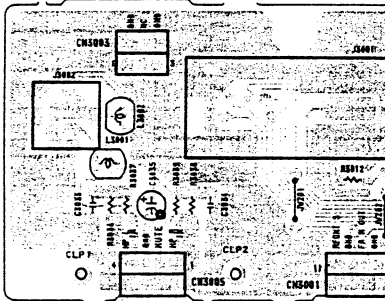
IC701	1	3.3
	2	12.5
	3	3.1
	4	GND
	5	10.0
	6	209.0
	7	169.0
	8	169.0
	9	168.0

All Voltage are in V.



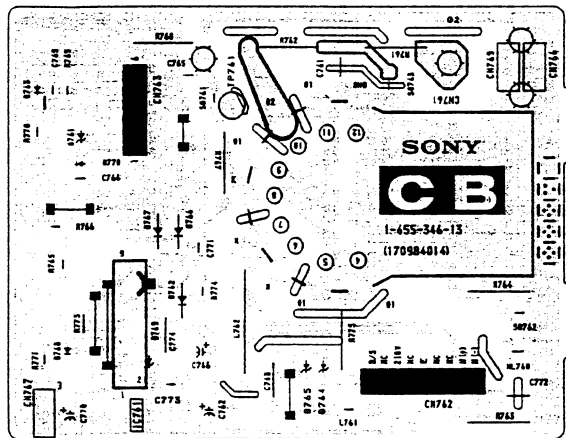
HA [VIDEO 3 INPUT, HP OUT, FUNCTION SW]

- HA BOARD -



CB [B OUT]

- CB BOARD -

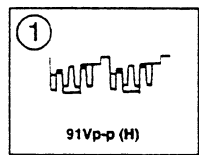


CB BOARD  
IC VOLTAGE LIST

IC761	1	3.3
	2	12.5
	3	3.1
	4	GND
	5	10.0
	6	209.0
	7	166.0
	8	167.0
	9	164.0

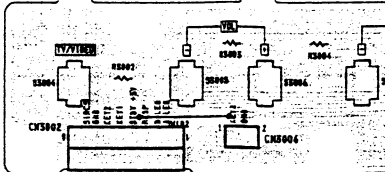
All Voltage are in V.

• CB BOARD  
WAVEFORM

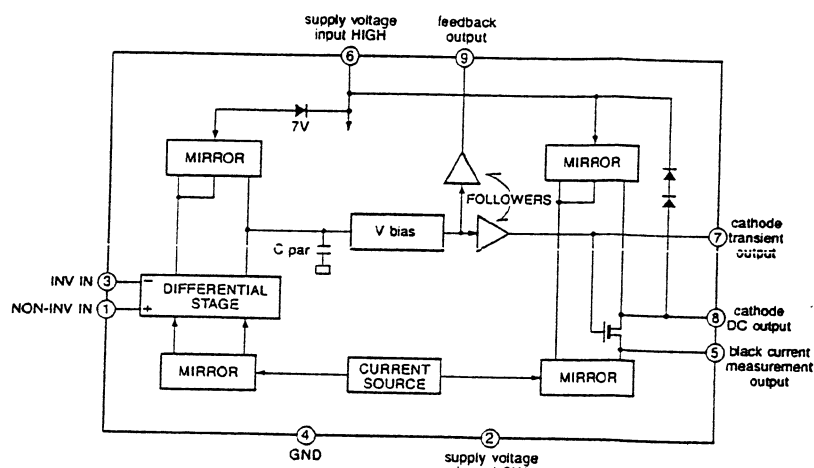


HB [SIRCS, FUNCTION SW]

- HB BOARD -



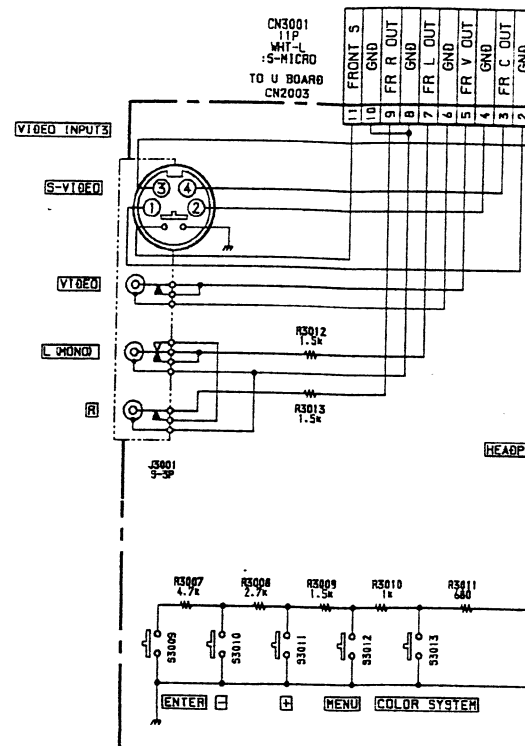
CR BOARD : IC701 TDA6101Q  
CG BOARD : IC731 TDA6101Q  
CB BOARD : IC761 TDA6101Q



# ARD TAGE LIST

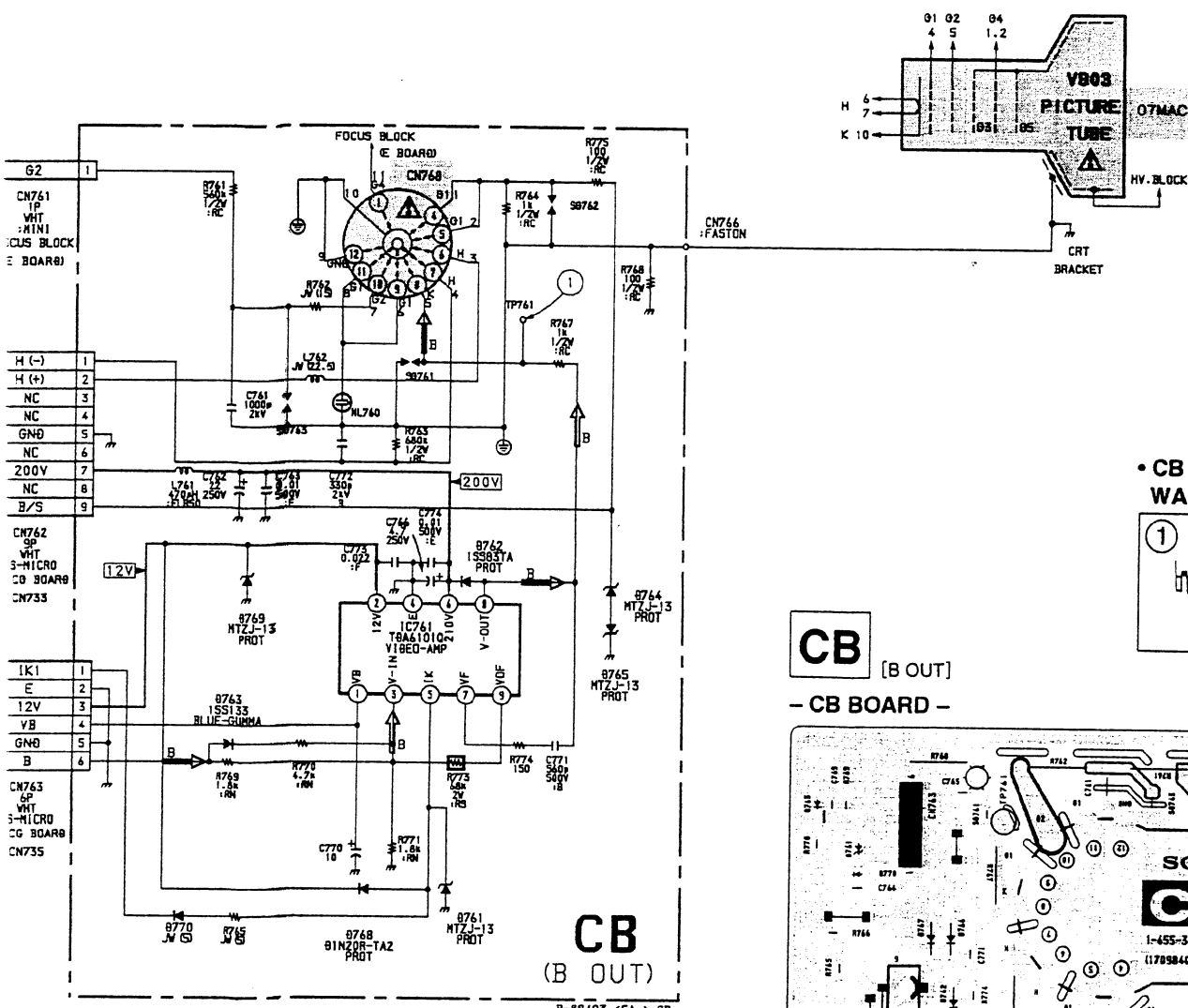
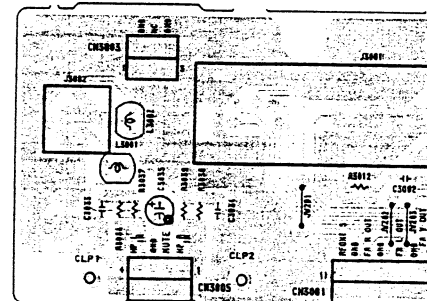
3.3
12.5
3.1
GND
10.0
209.0
169.0
169.0
168.0

age are in V.



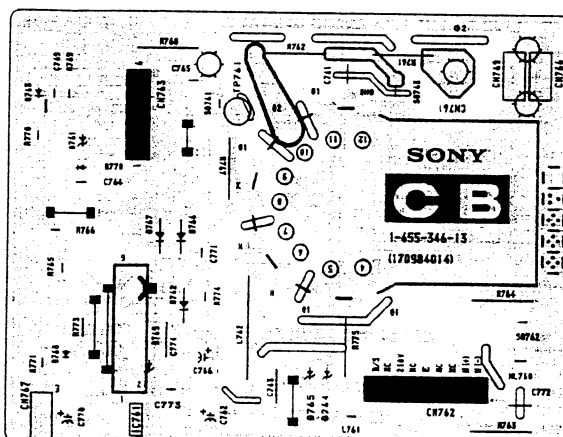
# HA [VIDEO 3 INPUT, HP OUT, FUNCTION SW]

- HA BOARD -



# CB [B OUT]

- CB BOARD -

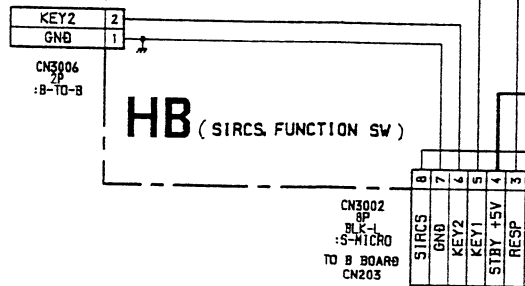
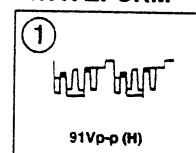


# CB BOARD IC VOLTAGE LIST

IC761	1	3.3
	2	12.5
	3	3.1
	4	GND
	5	10.0
	6	209.0
	7	166.0
	8	167.0
	9	164.0

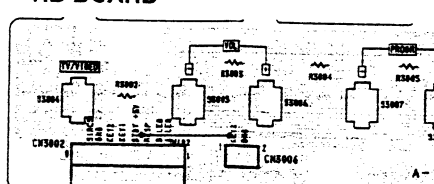
All Voltage are in V.

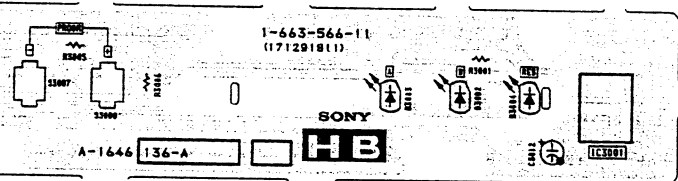
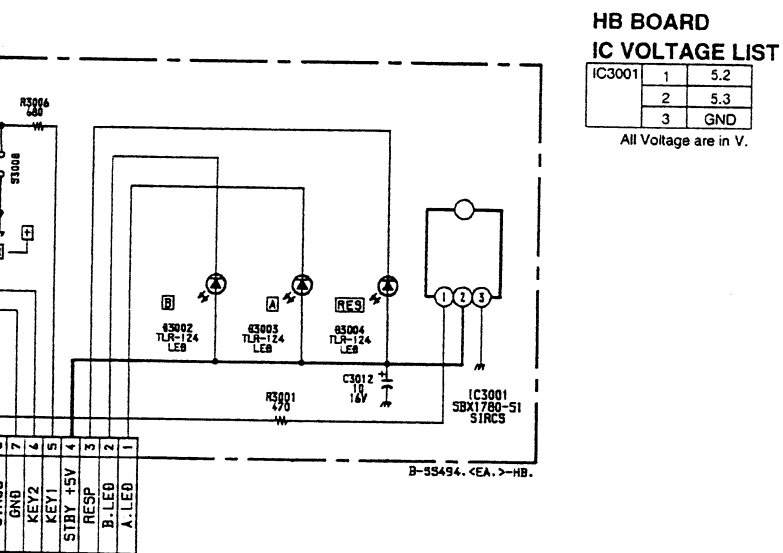
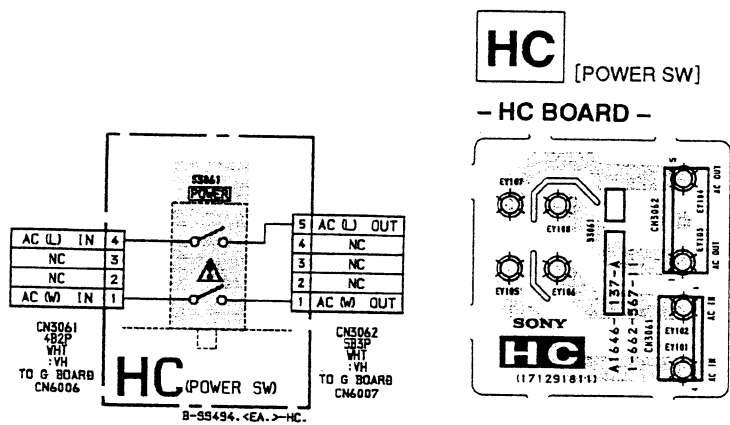
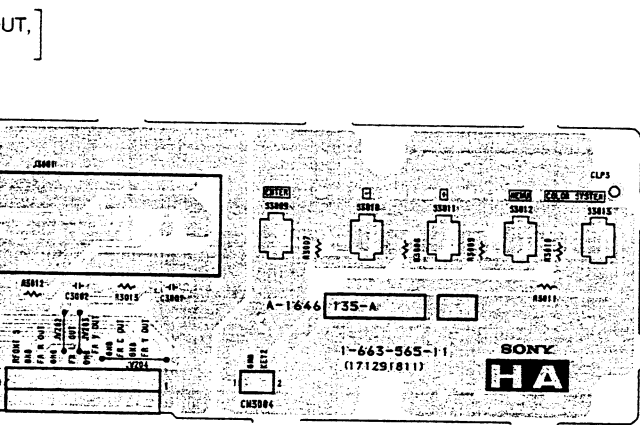
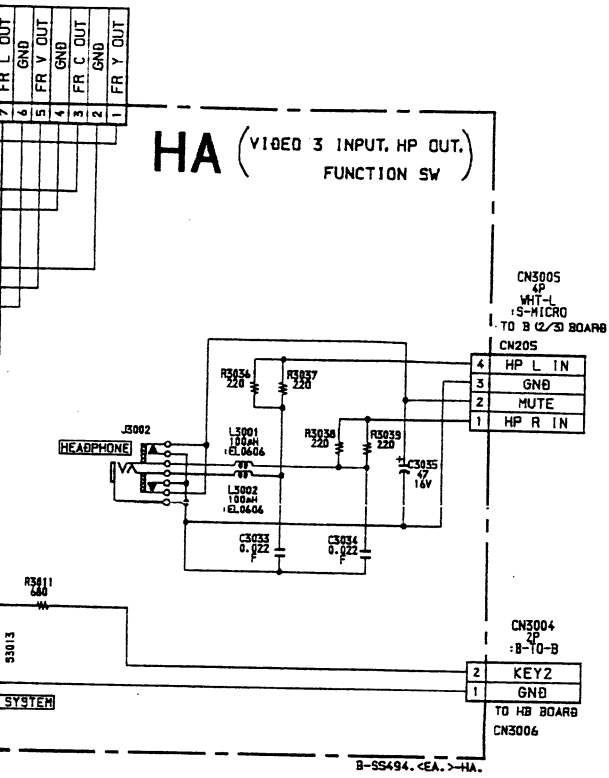
# • CB BOARD WAVEFORM



# HB [SIRCS, FUNCTION SW]

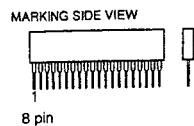
- HB BOARD -



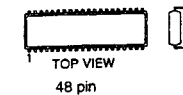


## 6-5. SEMICONDUCTORS

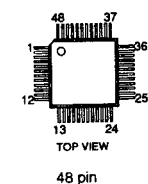
CX20125



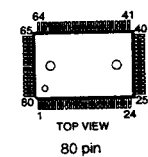
CXA1855S



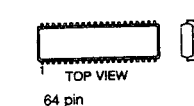
CXD2018Q



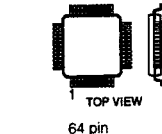
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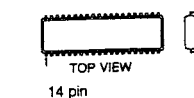
CXP85112B-613S



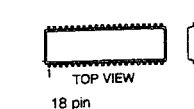
CXP85460-033Q



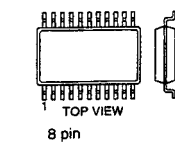
IR2112



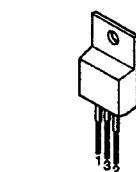
LA7856A  
PA0053B



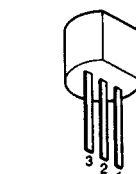
LM358D  
NJM2234M  
NJM2235M  
NJM2240M  
TDA2822D



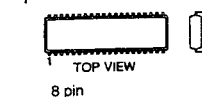
LM7912CT  
MC7905CT  
NJM7912FA



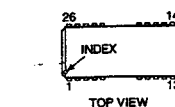
L78L05ACZ-AP



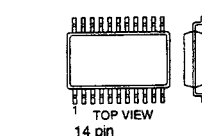
M5218AP  
NJM4558D  
ST24016CM1-TR/A  
 $\mu$ PC393C



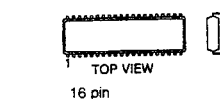
MB814100A-70PJ-T6  
MB814100C-70PJN-T6



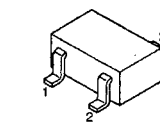
MC14066BF



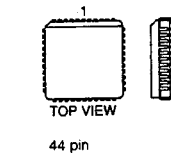
MC74HC163AF  
MC74HC4053F  
IR3M02A  
TDA4665T-T



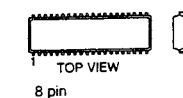
MN1382S



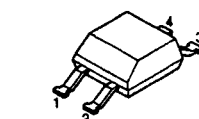
MSP3410B-PS-F7-T  
TPU3040-TC20



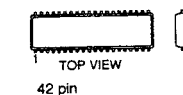
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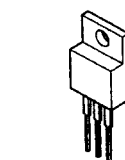
PC123F2



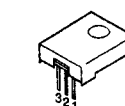
PM0002B



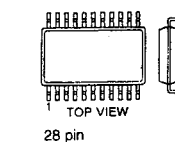
PQ09RF2  
MC7805CT  
MC7812CT  
TA7805S  
TA7812S



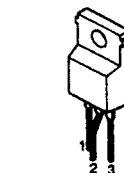
SBX1780-51



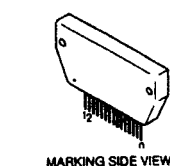
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SDA9188-3XGEG



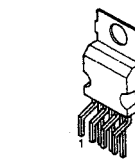
SE-135N



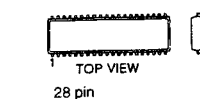
STK392-010



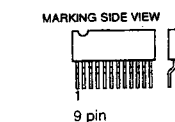
STV9379



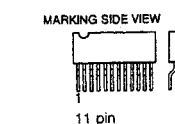
TDA4780/V3



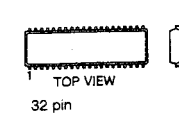
TDA6101Q/N3



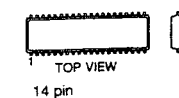
TDA7265



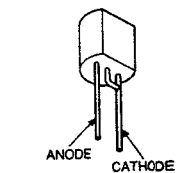
TDA9143/N2  
TDA9160A



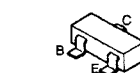
$\mu$ PC339C



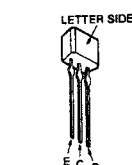
$\mu$ PC574J



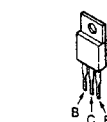
DTA114EKA-T146  
DTA144EKA-T146  
DTC144EKA-T146  
2SA1037K-T-146-QR  
2SA1162G  
2SB709A-QRS-TX  
2SC1623-L5L6  
2SC2412K-T-146-QR  
2SC2712-YG  
2SD601A-Q



DTA144ESA



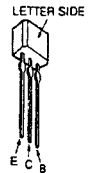
IRFI640LF  
IRFI744G-LF  
2SA1837  
2SC4793



2SA1013-O  
2SA1208



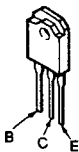
2SA1175-HFE  
2SA1039A-QRSTA  
2SC2785-HFE  
2SC3311A-QRSTA



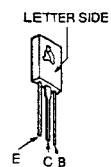
2SA1221-L  
2SB733-34  
2SB734-B4  
2SD774-34



2SA1492M-OPY



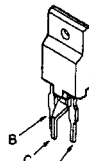
2SB649A  
2SC2668-LK



2SC2878-AB



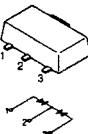
2SC4632LS-CB7  
2SD1887-CA



2SD2348LBSONY



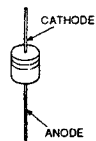
BAS16



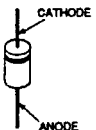
D10SC4M



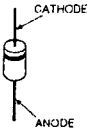
D1N20R  
ERA82-004TPS  
MTZJ-13  
MTZJ-3.6A  
MTZJ-T-77-24  
RD13ES-B2  
RD20ES-B1  
RD3.9ES-B1  
RD33ES-B2  
RD39ES-B2  
RD5.1ES-B2  
RD5.6ES-B2  
RD9.1ES-B1  
1SS119-25  
1SS133T-72  
11EQS04



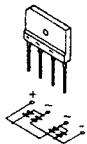
D2S4M



D3S4M-F  
EGP10D  
ERC04-06S  
ERC06-15S  
ERC91-02  
RU-IC  
S2LA20F



D6SB60L  
RBA-4068



D8LC40



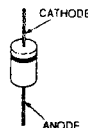
DAN202K



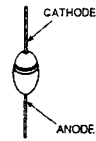
DAP202K



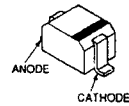
D1NL20-TR  
EL1Z  
GP08D(GP08DPKG23)  
RGP10GPKG23  
RGP02-17EL-6433  
RGP02-20EL-6394  
S2L40F  
UF4005PKG23  
1SS83



ERC38-06  
U05G  
V19E-T52



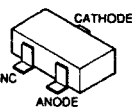
MA111



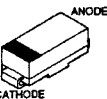
MA3039-L-(TX)  
MA3043-M-TX  
MA3051M-TX  
MA3075-TX  
MA3100H-TX  
MA3130H-TX  
RD13M-B3  
RD3.9M-B1  
RD5.1M-B2  
RD7.5M-B2



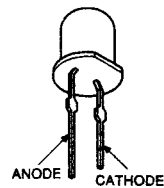
MA3240-TX



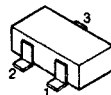
SC802-06



TLR124



DA204K-T-147  
1SS226



## SECTION 7 EXPLODED VIEWS

### NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.

- The construction parts of an assembled part are indicated with a collation number in the remark column.

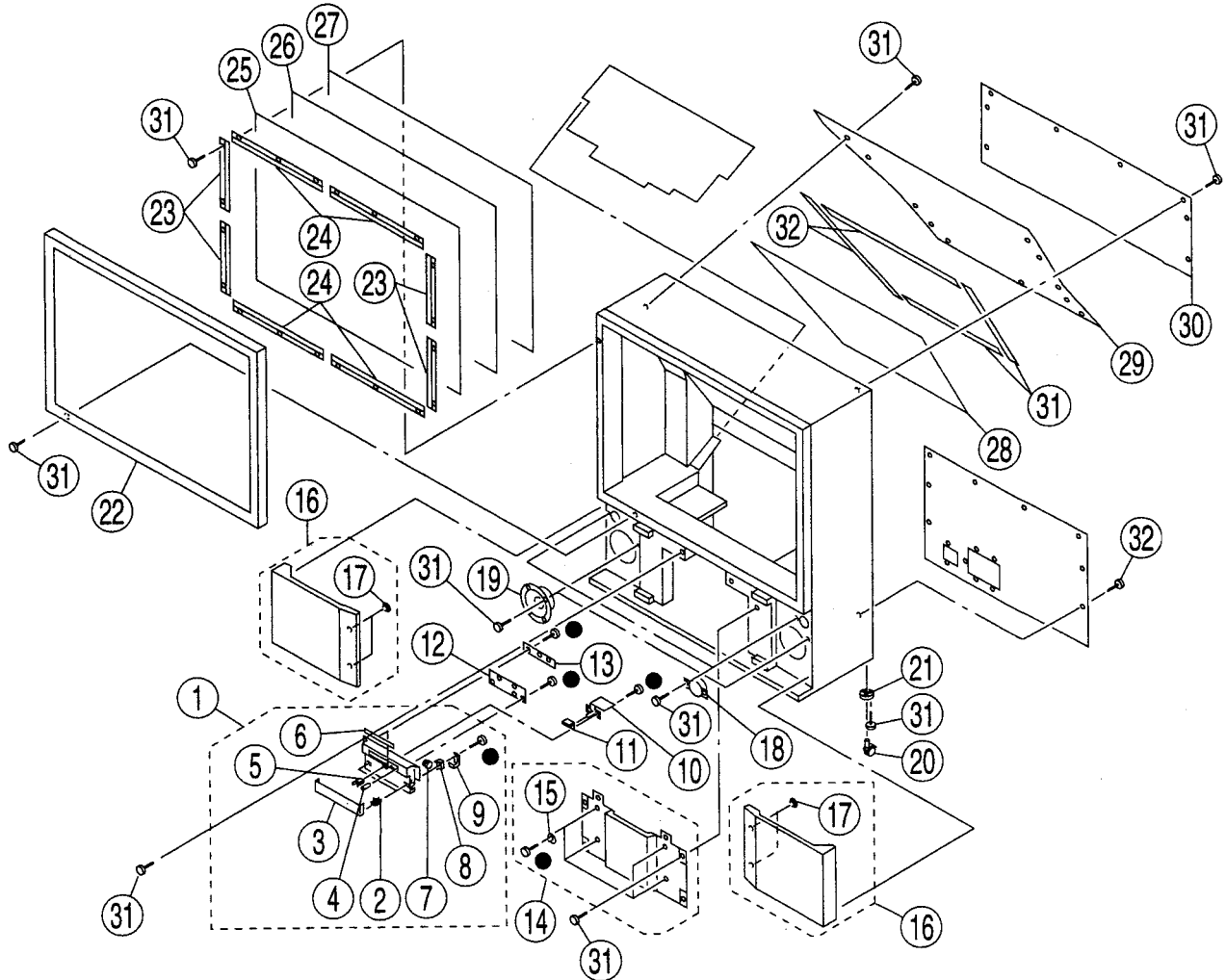
### 7-1. COVER

● : 7-685-648-79 +BVTP 3X12

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



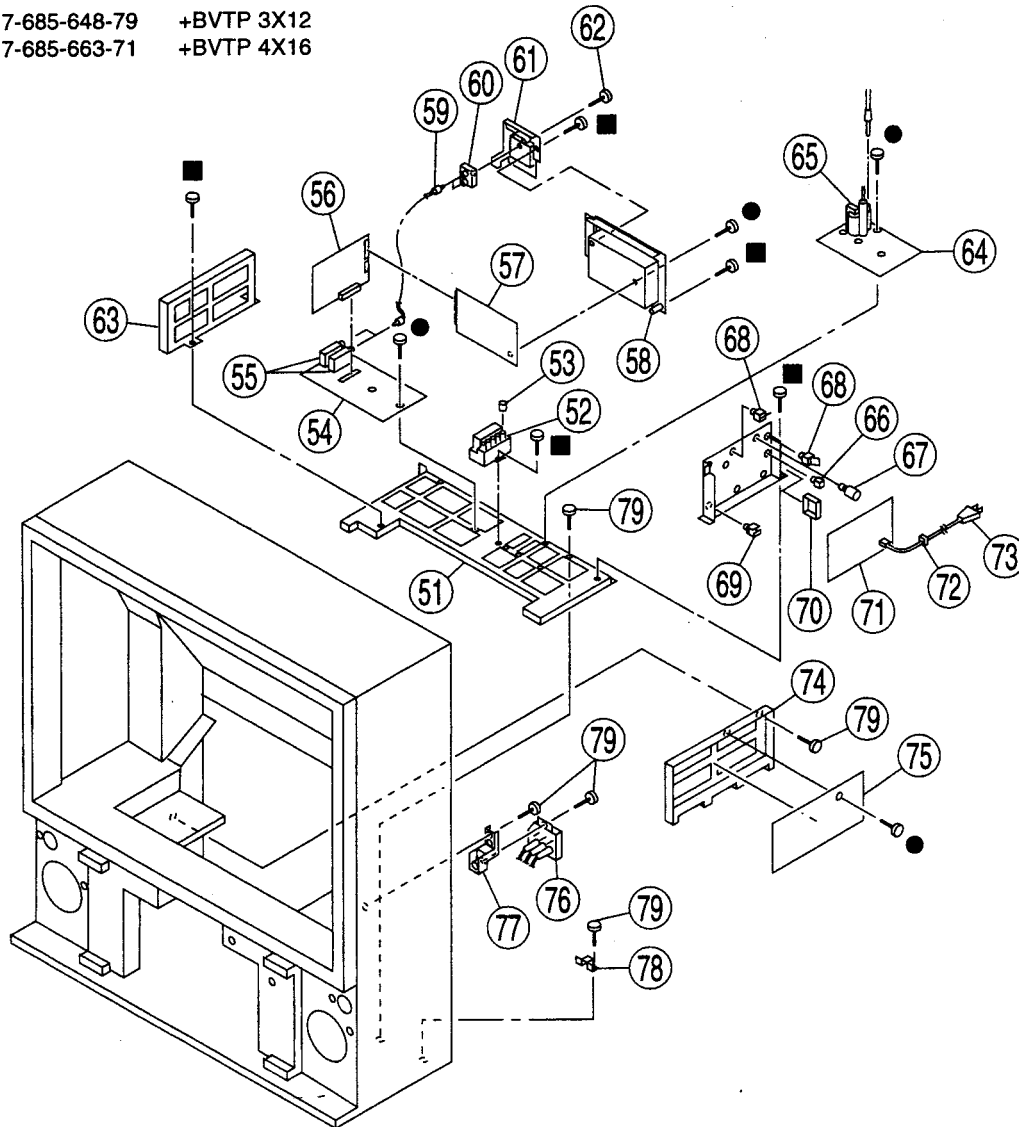
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4033-941-1	PANEL (53) ASSY, CONTROL	2-9	17	4-838-438-00	LATCH	
2	3-703-035-11	SHAFT, LID		18	1-505-703-11	SPEAKER (5CM)	
3	4-052-685-21	LID, FINAL CONTROL		19	1-505-704-11	SPEAKER (16CM)	
4	4-057-227-01	GUIDE (L), LIGHT		20	4-040-508-01	CASTER	
5	4-047-464-01	CATCHER, PUSH					
6	4-055-637-01	PANEL, INDICATOR		21	4-030-850-01	SOCKET, CASTER	
7	3-720-417-01	DAMPER, OIL		22	X-4034-426-1	FRAME (61) ASSY, SCREEN	
8	4-397-047-01	HOLDER, DAMPER		23	4-044-727-01	HOLDER (S), SCREEN	
9	4-036-513-01	SPRING, LID		24	4-044-726-01	HOLDER (L), SCREEN	
10	* A-1646-137-A	HC BOARD, COMPLETE		25	4-058-538-01	SCREEN (61), CONTRAST	
11	4-051-888-01	POWER BUTTON		26	4-040-124-11	PLATE (L), DIFFUSION	
12	* A-1646-135-A	HA BOARD, COMPLETE		27	4-040-123-11	PLATE (F), DIFFUSION	
13	* A-1646-136-A	HB BOARD, COMPLETE		28	4-058-871-01	MIRROR (61), REFLECTION	
14	X-4034-429-1	COVER (61) ASSY, FRONT	15	29	4-058-535-01	COVER (61), MIRROR	
15	4-843-806-00	STRIKE		30	* 4-058-533-01	PLATE (61), TOP	
16	X-4034-428-1	GRILLE (61) ASSY, SPEAKER	17	31	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
				32	* 4-058-527-01	HOLDER, MIRROR	

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## 7-2. CHASSIS

- : 7-685-648-79 +BVTP 3X12  
■ : 7-685-663-71 +BVTP 4X16



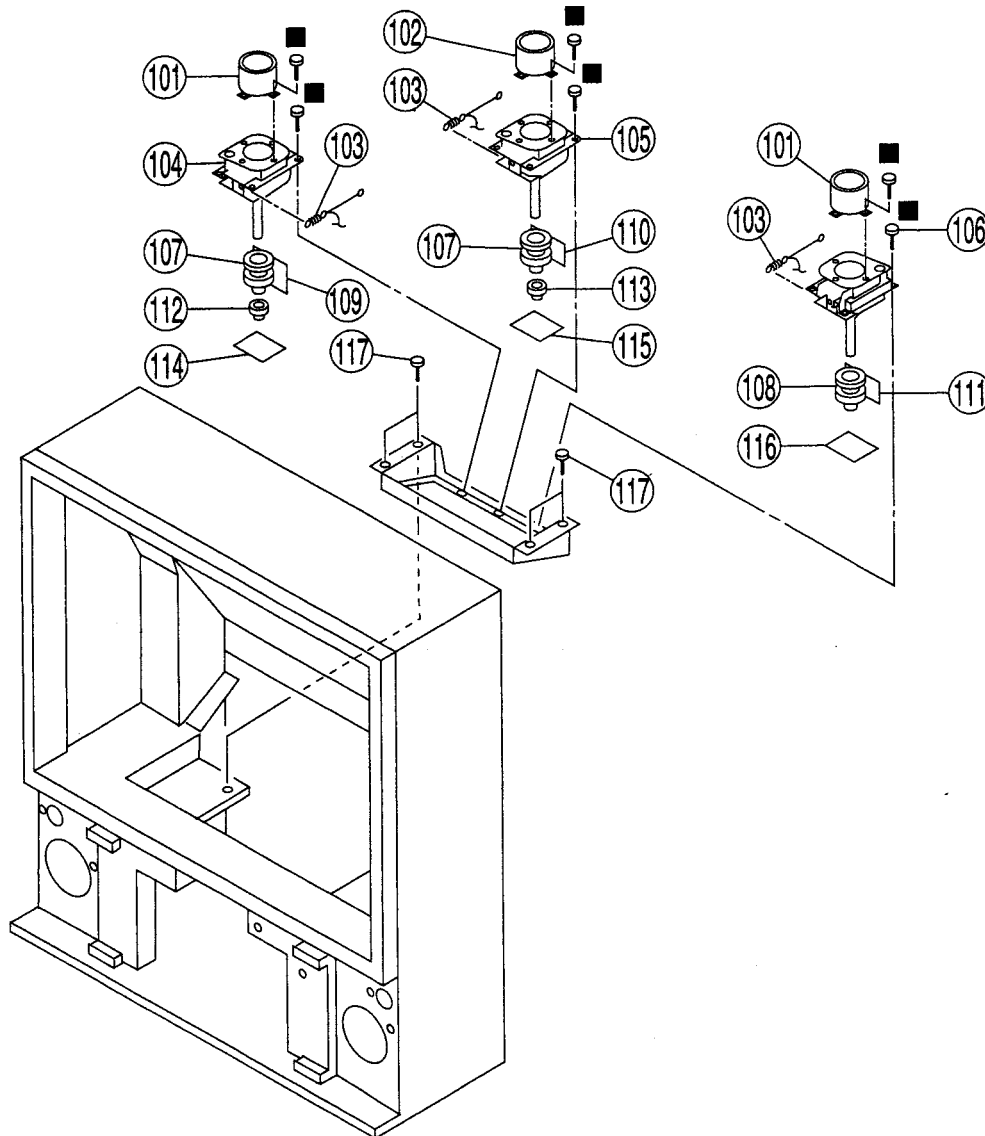
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* 4-047-949-12	BRACKET, MAIN PC BOARD		68	* 3-703-141-00	HOLDER, PCB	
52	$\Delta$ 8-598-955-11	BLOCK ASSY, HIGH-VOLTAGE		69	* 3-659-682-11	HOLDER, PC BOARD	
53	4-373-137-01	CAP (Z), RUBBER		70	* 4-316-015-00	HOLDER, WIRE	
54	* A-1632-585-A	A BOARD, COMPLETE		71	* A-1637-007-A	G BOARD, COMPLETE	
55	8-598-270-00	TUNER, ET BTP-RG421		72	4-389-201-11	HOLDER, AC CORD	
56	* A-1621-061-A	B BOARD, COMPLETE		73	$\Delta$ 1-574-358-12	CORD, POWER (WITH CONNECTOR) 7.5A/250V (KP-E61SN11)	
57	* A-1647-004-A	U BOARD, COMPLETE			$\Delta$ 1-690-270-21	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KP-E61MH11(ME)/KP-E61MN11)	
58	4-055-642-01	TERMINAL BOARD (A) (53)			$\Delta$ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (KP-E61MH11(HK))	
59	* 1-555-400-00	CABLE, PIN		74	* 4-054-834-01	BRACKET (D)	
60	1-251-249-11	DISTRIBUTOR, RF		75	* A-1642-215-A	D BOARD, COMPLETE	
61	4-055-643-01	TERMINAL BOARD (B) (53)		76	$\Delta$ 1-223-925-12	RESISTOR ASSY (HIGH-VOLTAGE)	
62	4-382-854-11	SCREW (M3X10), P, SW (+)		77	* 4-054-825-01	BRACKET, FOCUS PACK	
63	* 4-054-833-01	BRACKET (B)		78	4-051-889-01	HOLDER, AC	
64	* A-1642-192-A	E BOARD, COMPLETE		79	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
65	$\Delta$ 1-453-189-11	TRANSFORMER ASSY, FLYBACK (NX-2631//A4S)					
66	* 4-382-848-01	HOLDER, PCB					
67	* 3-687-542-41	SPACER, PC BOARD SPACE					

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 7-3. PICTURE TUBE

■ : 7-685-663-71 +BVTP 4X16



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	4-040-131-01	LENS (LINNIT POINT 6)		110	* A-1390-595-A	ZG BOARD, COMPLETE	
102	4-040-131-21	LENS (LINNIT POINT 6)		111	* A-1390-596-A	ZB BOARD, COMPLETE	
103	4-048-142-11	SPRING, EXTENSION		112	$\Delta$ 1-452-790-21	NECK ASSY	
104	$\Delta$ 8-733-508-05	PICTURE TUBE 07MAC4(R)		113	$\Delta$ 1-452-790-11	NECK ASSY	
105	$\Delta$ 8-733-509-05	PICTURE TUBE 07MAC2(G)		114	* A-1331-532-A	CR BOARD, COMPLETE	
106	$\Delta$ 8-733-507-05	PICTURE TUBE 07MAC4(B)		115	* A-1331-533-A	CG BOARD, COMPLETE	
107	$\Delta$ 8-451-463-12	DEFLECTION YOKE Y829PA2N (R) (G)		116	* A-1331-534-A	CB BOARD, COMPLETE	
108	$\Delta$ 8-451-463-22	DEFLECTION YOKE Y829PA2N2 (B)		117	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
109	* A-1390-594-A	ZR BOARD, COMPLETE					

# SECTION 8

## ELECTRICAL PARTS LIST

**CR CG**

### NOTE:

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

• The components identified by  $\boxtimes$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

### RESISTORS

- All resistors are in ohms
- F : nonflammable

### CAPACITORS

PF :  $\mu\mu$  F

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1331-532-A CR BOARD, COMPLETE *****			
<CAPACITOR>			
C701	1-104-664-11	ELECT 47MF 20% 25V	
C702	1-107-662-11	ELECT 22MF 20% 250V	
C703	1-161-754-00	CERAMIC 0.001MF 10% 2KV	
C704	1-126-768-11	ELECT 2200MF 20% 16V	
C705	1-102-050-00	CERAMIC 0.01MF 500V	
C707	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C708	1-104-664-11	ELECT 47MF 20% 25V	
C709	1-107-651-11	ELECT 4.7MF 20% 250V	
C710	1-102-157-00	CERAMIC 560PF 10% 500V	
C714	1-162-115-00	CERAMIC 330PF 10% 2KV	
C715	1-101-005-00	CERAMIC 0.022MF 50V	
C716	1-102-050-00	CERAMIC 0.01MF 500V	
<CONNECTOR>			
CN701	* 1-508-784-21	PIN, CONNECTOR (5mm PITCH) 1P	
CN702	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN703	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN704	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN705	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN706	1-695-915-11	TAB (CONTACT)	
CN708	$\Delta$ 1-251-179-11	SOCKET, PICTURE TUBE	
CN709	* 1-564-506-11	PLUG, CONNECTOR 3P	
<DIODE>			
D701	8-719-991-33	DIODE 1SS133T-77	
D702	8-719-991-33	DIODE 1SS133T-77	
D703	8-719-991-33	DIODE 1SS133T-77	
D704	8-719-921-86	DIODE MTZJ-13	
D705	8-719-210-21	DIODE 11EQS04	
D706	8-719-991-33	DIODE 1SS133T-77	
D707	8-719-921-86	DIODE MTZJ-13	
D708	8-719-901-83	DIODE 1SS83	
D713	8-719-510-48	DIODE D1N20R	
D716	8-719-921-86	DIODE MTZJ-13	
D717	8-719-921-86	DIODE MTZJ-13	
<IC>			
IC701	8-759-346-42	IC TDA6101Q/N3	
<COIL>			
L701	1-408-429-00	INDUCTOR 470UH	
<NEON LAMP>			
NL701	1-519-108-99	LAMP, NEON	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R701	1-215-411-00	METAL 390 1% 1/4W	
R702	1-215-414-00	METAL 510 1% 1/4W	
R704	1-202-847-00	SOLID 560K 20% 1/2W	
R706	1-249-407-11	CARBON 150 5% 1/4W	
R707	1-215-429-00	METAL 2.2K 1% 1/4W	
R708	1-202-883-11	SOLID 680K 20% 1/2W	
R709	1-215-436-00	METAL 4.3K 1% 1/4W	
R710	1-215-427-00	METAL 1.8K 1% 1/4W	
R711	1-215-427-00	METAL 1.8K 1% 1/4W	
R712	1-215-903-11	METAL OXIDE 68K 5% 2W F	
R713	1-202-818-00	SOLID 1K 20% 1/2W	
R714	1-202-818-00	SOLID 1K 20% 1/2W	
R719	1-247-807-31	CARBON 100 5% 1/4W	
R721	1-202-549-00	SOLID 100 20% 1/2W	
R722	1-202-549-00	SOLID 100 20% 1/2W	
<SPARK GAP>			
SG701	1-519-422-11	GAP, SPARK	
SG702	1-519-422-11	GAP, SPARK	
SG703	1-519-422-11	GAP, SPARK	
*****			
* A-1331-533-A CG BOARD, COMPLETE *****			
<CAPACITOR>			
C731	1-161-754-00	CERAMIC 0.001MF 10% 2KV	
C732	1-107-662-11	ELECT 22MF 20% 250V	
C733	1-102-050-00	CERAMIC 0.01MF 500V	
C736	1-126-964-11	ELECT 10MF 20% 50V	
C738	1-107-651-11	ELECT 4.7MF 20% 250V	
C740	1-126-964-11	ELECT 10MF 20% 50V	
C741	1-102-157-00	CERAMIC 560PF 10% 500V	
C742	1-162-115-00	CERAMIC 330PF 10% 2KV	
C743	1-101-005-00	CERAMIC 0.022MF 50V	
C744	1-102-050-00	CERAMIC 0.01MF 500V	
<CONNECTOR>			
CN731	* 1-508-784-21	PIN, CONNECTOR (5mm PITCH) 1P	
CN732	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN733	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN734	* 1-564-511-11	PLUG, CONNECTOR 8P	
CN735	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN736	1-695-915-11	TAB (CONTACT)	
CN738	$\Delta$ 1-251-179-11	SOCKET, PICTURE TUBE	

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>			
D731	8-719-921-86	DIODE MTZJ-13	
D732	8-719-901-83	DIODE 1SS83	
D733	8-719-991-33	DIODE 1SS133T-77	
D736	8-719-510-48	DIODE D1N20R	
D737	8-719-921-86	DIODE MTZJ-13	
<IC>			
IC731	8-759-346-42	IC TDA6101Q/N3	
<COIL>			
L731	1-408-429-00	INDUCTOR 470UH	
<NEON LAMP>			
NL731	1-519-108-99	LAMP, NEON	
<RESISTOR>			
R731	1-202-847-00	SOLID 560K 20% 1/2W	
R733	1-202-883-11	SOLID 680K 20% 1/2W	
R734	1-202-818-00	SOLID 1K 20% 1/2W	
R735	1-249-407-11	CARBON 150 5% 1/4W	
R737	1-202-818-00	SOLID 1K 20% 1/2W	
R738	1-202-549-00	SOLID 100 20% 1/2W	
R739	1-215-427-00	METAL 1.8K 1% 1/4W	
R740	1-215-427-00	METAL 1.8K 1% 1/4W	
R741	1-247-815-91	CARBON 220 5% 1/4W	
R742	1-215-903-11	METAL OXIDE 68K 5% 2W	F
R743	1-215-481-00	METAL 330K 1% 1/4W	
<SPARK GAP>			
SG731	1-519-422-11	GAP, SPARK	
SG732	1-519-422-11	GAP, SPARK	
SG733	1-519-422-11	GAP, SPARK	
<CAPACITOR>			
C761	1-161-754-00	CERAMIC 0.001MF 10% 2KV	
C762	1-107-662-11	ELECT 22MF 20% 250V	
C763	1-102-050-00	CERAMIC 0.01MF 500V	
C766	1-107-651-11	ELECT 4.7MF 20% 250V	
C770	1-126-964-11	ELECT 10MF 20% 50V	
C771	1-102-157-00	CERAMIC 560PF 10% 500V	
C772	1-162-115-00	CERAMIC 330PF 10% 2KV	
C773	1-101-005-00	CERAMIC 0.022MF 50V	
C774	1-102-050-00	CERAMIC 0.01MF 500V	
<CONNECTOR>			
CN761	* 1-508-784-21	PIN, CONNECTOR (5mm PITCH) 1P	
CN762	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN763	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN766	1-695-915-11	TAB (CONTACT)	
CN768	$\Delta$ 1-251-179-11	SOCKET, PICTURE TUBE	
<DIODE>			
D761	8-719-921-86	DIODE MTZJ-13	
D762	8-719-901-83	DIODE 1SS83	

REF. NO.	PART NO.	DESCRIPTION	REMARK
D763	8-719-991-33	DIODE 1SS133T-77	
D764	8-719-921-86	DIODE MTZJ-13	
D765	8-719-921-86	DIODE MTZJ-13	
D768	8-719-510-48	DIODE D1N20R	
D769	8-719-921-86	DIODE MTZJ-13	
<IC>			
IC761	8-759-346-42	IC TDA6101Q/N3	
<COIL>			
L761	1-408-429-00	INDUCTOR 470UH	
<NEON LAMP>			
NL760	1-519-108-99	LAMP, NEON	
<RESISTOR>			
R761	1-202-847-00	SOLID 560K 20% 1/2W	
R763	1-202-883-11	SOLID 680K 20% 1/2W	
R764	1-202-818-00	SOLID 1K 20% 1/2W	
R767	1-202-818-00	SOLID 1K 20% 1/2W	
R768	1-202-549-00	SOLID 100 20% 1/2W	
R769	1-215-427-00	METAL 1.8K 1% 1/4W	
R770	1-215-437-00	METAL 4.7K 1% 1/4W	
R771	1-215-427-00	METAL 1.8K 1% 1/4W	
R773	1-215-903-11	METAL OXIDE 68K 5% 2W	F
R774	1-249-407-11	CARBON 150 5% 1/4W	
R775	1-202-549-00	SOLID 100 20% 1/2W	
<SPARK GAP>			
SG761	1-519-422-11	GAP, SPARK	
SG762	1-519-422-11	GAP, SPARK	
SG763	1-519-422-11	GAP, SPARK	
<CAPACITOR>			
C1401	1-162-115-00	CERAMIC 330PF 10% 2KV	
C1402	1-162-115-00	CERAMIC 330PF 10% 2KV	
C1403	1-102-978-00	CERAMIC 220PF 5% 50V	
C1404	1-107-638-11	ELECT 33MF 20% 160V	
C1405	1-104-665-11	ELECT 100MF 20% 25V	
C1406	1-107-370-11	FILM 0.1MF 10% 200V	
C1407	1-104-665-11	ELECT 100MF 20% 25V	
C1408	1-107-362-11	FILM 0.0047MF 10% 200V	
C1409	1-107-667-11	ELECT 2.2MF 20% 160V	
C1410	1-107-362-11	FILM 0.0047MF 10% 200V	
C1411	1-137-364-11	FILM 0.001MF 5% 50V	
C1412	1-137-364-11	FILM 0.001MF 5% 50V	
C1413	1-161-830-00	CERAMIC 0.0047MF 500V	
C1414	1-104-661-91	ELECT 330MF 20% 16V	
C1415	1-102-947-00	CERAMIC 10PF 0.5PF 50V	
C1416	1-102-973-00	CERAMIC 100PF 5% 50V	
<CONNECTOR>			
CN1411	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	

\* A-1390-594-A ZR BOARD, COMPLETE

4-382-854-11 SCREW (M3X10), P, SW (+)

\* A-1331-534-A CB BOARD, COMPLETE

ZR ZG ZB B

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN1412	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1413	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1414	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN1415	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN1416	1-695-915-11	TAB (CONTACT)	
<DIODE>			
D1401	8-719-110-88	DIODE RD39ESB2	
D1402	8-719-110-88	DIODE RD39ESB2	
<TRANSISTOR>			
Q1401	8-729-017-06	TRANSISTOR 2SC4793	
Q1402	8-729-017-05	TRANSISTOR 2SA1837	
Q1403	8-729-140-96	TRANSISTOR 2SD774-34	
<RESISTOR>			
R1401	1-249-414-11	CARBON 560	5% 1/4W
R1402	1-249-414-11	CARBON 560	5% 1/4W
R1403	1-202-822-00	SOLID 2.2K	20% 1/2W
R1404	1-202-822-00	SOLID 2.2K	20% 1/2W
R1405	1-249-417-11	CARBON 1K	5% 1/4W
R1406	1-216-479-11	METAL OXIDE 560	5% 3W F
R1407	1-249-400-11	CARBON 39	5% 1/4W F
R1408	1-249-384-11	CARBON 1.8	5% 1/4W F
R1409	1-249-384-11	CARBON 1.8	5% 1/4W F
R1410	1-260-311-11	CARBON 39	5% 1/2W
R1411	1-249-417-11	CARBON 1K	5% 1/4W F
R1412	1-249-414-11	CARBON 560	5% 1/4W
R1413	1-249-432-11	CARBON 18K	5% 1/4W
R1414	1-249-432-11	CARBON 18K	5% 1/4W
R1415	1-249-414-11	CARBON 560	5% 1/4W F
R1416	1-216-451-11	METAL OXIDE 120	5% 2W F
R1417	1-216-475-11	METAL OXIDE 120	5% 3W F
R1418	1-249-377-11	CARBON 0.47	5% 1/4W F
R1419	1-249-409-11	CARBON 220	5% 1/4W
R1420	1-216-475-11	METAL OXIDE 120	5% 3W F
R1421	1-249-417-11	CARBON 1K	5% 1/4W
*****			
* A-1390-595-A ZG BOARD, COMPLETE			
*****			
<CAPACITOR>			
C1431	1-162-115-00	CERAMIC 330PF	10% 2KV
C1432	1-162-115-00	CERAMIC 330PF	10% 2KV
C1433	1-102-973-00	CERAMIC 100PF	5% 50V
<CONNECTOR>			
CN1441	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1442	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1443	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN1445	* 1-564-510-11	PLUG, CONNECTOR 7P	
<RESISTOR>			
R1431	1-249-414-11	CARBON 560	5% 1/4W
R1432	1-249-414-11	CARBON 560	5% 1/4W
R1433	1-202-822-00	SOLID 2.2K	20% 1/2W
R1434	1-202-822-00	SOLID 2.2K	20% 1/2W
R1435	1-216-475-11	METAL OXIDE 120	5% 3W F
R1436	1-216-475-11	METAL OXIDE 120	5% 3W F
R1437	1-249-417-11	CARBON 1K	5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
*****			
* A-1390-596-A ZB BOARD, COMPLETE			
*****			
<CAPACITOR>			
C1461	1-162-115-00	CERAMIC 330PF	10% 2KV
C1462	1-162-115-00	CERAMIC 330PF	10% 2KV
<CONNECTOR>			
CN1471	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1472	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN1473	* 1-564-506-11	PLUG, CONNECTOR 3P	
<RESISTOR>			
R1461	1-249-414-11	CARBON 560	5% 1/4W
R1462	1-249-414-11	CARBON 560	5% 1/4W
R1463	1-202-822-00	SOLID 2.2K	20% 1/2W
R1464	1-202-822-00	SOLID 2.2K	20% 1/2W
R1465	1-216-475-11	METAL OXIDE 120	5% 3W F
R1466	1-216-475-11	METAL OXIDE 120	5% 3W F
*****			
* A-1621-061-A B BOARD, COMPLETE			
*****			
<CAPACITOR>			
C1	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C2	1-126-933-11	ELECT 100MF	20% 16V
C3	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C4	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C5	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C6	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C7	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C8	1-163-089-00	CERAMIC CHIP 6PF	0.5PF 50V
C9	1-126-967-11	ELECT 47MF	20% 16V
C10	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C11	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C12	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C13	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C14	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C15	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C16	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C17	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C18	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C19	1-126-967-11	ELECT 47MF	20% 16V
C20	1-164-346-11	CERAMIC CHIP 1MF	16V
C21	1-164-346-11	CERAMIC CHIP 1MF	16V
C22	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C23	1-126-959-11	ELECT 0.47MF	20% 50V
C24	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C25	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C26	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C27	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C28	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C29	1-126-963-11	ELECT 4.7MF	20% 50V
C30	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C31	1-126-935-11	ELECT 470MF	20% 16V
C32	1-163-038-00	CERAMIC CHIP 0.1MF	10% 25V
C33	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C34	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C35	1-126-964-11	ELECT 10MF	20% 50V
C36	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V

B

REF. NO.	PART NO.	DESCRIPTION	REMARK
C37	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C38	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C39	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C40	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C41	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C42	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C43	1-126-964-11	ELECT 10MF	20% 50V
C44	1-126-967-11	ELECT 47MF	20% 16V
C45	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C46	1-126-967-11	ELECT 47MF	20% 16V
C47	1-126-967-11	ELECT 47MF	20% 16V
C48	1-126-933-11	ELECT 100MF	20% 16V
C49	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C50	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C51	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C52	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C53	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C54	1-126-967-11	ELECT 47MF	20% 16V
C55	1-126-933-11	ELECT 100MF	20% 16V
C56	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C57	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C58	1-126-964-11	ELECT 10MF	20% 50V
C59	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C60	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C61	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C62	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C63	1-126-933-11	ELECT 100MF	20% 16V
C64	1-163-249-11	CERAMIC CHIP 82PF	5% 50V
C65	1-126-967-11	ELECT 47MF	20% 16V
C66	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C67	1-126-933-11	ELECT 100MF	20% 16V
C68	1-126-933-11	ELECT 100MF	20% 16V
C69	1-126-967-11	ELECT 47MF	20% 16V
C70	1-126-933-11	ELECT 100MF	20% 16V
C71	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C73	1-126-935-11	ELECT 470MF	20% 16V
C75	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C78	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C80	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C81	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C82	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C83	1-126-967-11	ELECT 47MF	20% 16V
C84	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C85	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C86	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C87	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C88	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C89	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C90	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C91	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C94	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C95	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C96	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C97	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C99	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C100	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C101	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C102	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C103	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C104	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C106	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C108	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C109	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C110	1-126-933-11	ELECT 100MF	20% 16V
C111	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C112	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C113	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C114	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C115	1-126-960-11	ELECT 1MF	20% 50V
C116	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C117	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C118	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C119	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C120	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C121	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C122	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C123	1-164-346-11	CERAMIC CHIP 1MF	16V
C125	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
C126	1-126-964-11	ELECT 10MF	20% 50V
C127	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C128	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C129	1-126-960-11	ELECT 1MF	20% 50V
C130	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C201	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C202	1-126-964-11	ELECT 10MF	20% 50V
C203	1-126-964-11	ELECT 10MF	20% 50V
C204	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C205	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C206	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C207	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
C208	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C209	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C210	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C211	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C212	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C213	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C214	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C215	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C216	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C217	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C219	1-126-301-11	ELECT 1MF	20% 50V
C220	1-126-301-11	ELECT 1MF	20% 50V
C221	1-126-967-11	ELECT 47MF	20% 16V
C223	1-164-346-11	CERAMIC CHIP 1MF	16V
C224	1-126-964-11	ELECT 10MF	20% 50V
C225	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C226	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C227	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C228	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C229	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C230	1-126-967-11	ELECT 47MF	20% 16V
C231	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C232	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C233	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C236	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C237	1-126-963-11	ELECT 4.7MF	20% 50V
C238	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C239	1-163-127-00	CERAMIC CHIP 270PF	5% 50V
C241	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C242	1-126-956-91	ELECT 0.1MF	20% 50V
C243	1-126-963-11	ELECT 4.7MF	20% 50V
C245	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C246	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C247	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C249	1-126-960-11	ELECT 1MF	20% 50V
C250	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C251	1-126-964-11	ELECT 10MF	20% 50V
C253	1-163-033-00	CERAMIC CHIP 0.022MF	50V
C254	1-163-035-00	CERAMIC CHIP 0.047MF	50V
C255	1-163-035-00	CERAMIC CHIP 0.047MF	50V
C256	1-163-035-00	CERAMIC CHIP 0.047MF	50V
C257	1-164-346-11	CERAMIC CHIP 1MF	16V
C258	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V
C259	1-126-960-11	ELECT 1MF	20% 50V
C260	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C261	1-126-967-11	ELECT 47MF	20% 16V

**B**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C262	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C335	1-164-346-11	CERAMIC CHIP 1MF	16V
C263	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C336	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C264	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C337	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C266	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	C338	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C267	1-126-964-11	ELECT 10MF	20% 50V	C339	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C268	1-126-964-11	ELECT 10MF	20% 50V	C340	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C269	1-126-964-11	ELECT 10MF	20% 50V	C341	1-163-003-11	CERAMIC CHIP 330PF	10% 50V
C270	1-126-767-11	ELECT 1000MF	20% 16V	C342	1-126-964-11	ELECT 10MF	20% 50V
C271	1-126-967-11	ELECT 47MF	20% 16V	C343	1-163-003-11	CERAMIC CHIP 330PF	10% 50V
C272	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C344	1-163-096-00	CERAMIC CHIP 13PF	5% 50V
C273	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C345	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C274	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C347	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C275	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C348	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C276	1-126-964-11	ELECT 10MF	20% 50V	C349	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C277	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C350	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C278	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C351	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C279	1-164-346-11	CERAMIC CHIP 1MF	16V	C352	1-126-964-11	ELECT 10MF	20% 50V
C280	1-164-346-11	CERAMIC CHIP 1MF	16V	C353	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C281	1-164-346-11	CERAMIC CHIP 1MF	16V	C354	1-126-964-11	ELECT 10MF	20% 50V
C282	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C355	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C283	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C356	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C284	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C358	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C285	1-164-346-11	CERAMIC CHIP 1MF	16V	C359	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C286	1-164-346-11	CERAMIC CHIP 1MF	16V	C360	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
C287	1-164-346-11	CERAMIC CHIP 1MF	16V	C361	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C288	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C362	1-126-967-11	ELECT 47MF	20% 16V
C289	1-126-963-11	ELECT 4.7MF	20% 50V	C363	1-126-964-11	ELECT 10MF	20% 50V
C290	1-126-301-11	ELECT 1MF	20% 50V	C364	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C291	1-126-964-11	ELECT 10MF	20% 50V	C365	1-126-963-11	ELECT 4.7MF	20% 50V
C293	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C366	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C294	1-104-664-11	ELECT 47MF	20% 25V	C367	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C296	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C368	1-126-967-11	ELECT 47MF	20% 16V
C297	1-126-967-11	ELECT 47MF	20% 16V	C369	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C298	1-126-935-11	ELECT 470MF	20% 16V	C370	1-126-964-11	ELECT 10MF	20% 50V
C299	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C371	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C300	1-126-964-11	ELECT 10MF	20% 50V	C372	1-126-964-11	ELECT 10MF	20% 50V
C301	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C374	1-126-964-11	ELECT 10MF	20% 50V
C302	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C375	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C303	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C376	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C304	1-126-967-11	ELECT 47MF	20% 16V	C377	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C306	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C378	1-126-959-11	ELECT 0.47MF	20% 50V
C307	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C379	1-126-935-11	ELECT 470MF	20% 16V
C308	1-163-241-11	CERAMIC CHIP 39PF	5% 50V	C380	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C309	1-163-139-00	CERAMIC CHIP 820PF	5% 50V	C382	1-216-295-00	CONDUCTOR, CHIP	
C310	1-163-033-00	CERAMIC CHIP 0.022MF	50V	C385	1-216-295-00	CONDUCTOR, CHIP	
C311	1-126-933-11	ELECT 100MF	20% 16V	C387	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C312	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C388	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C313	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C389	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C314	1-126-935-11	ELECT 470MF	20% 16V	C391	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C315	1-126-933-11	ELECT 100MF	20% 16V	C416	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C316	1-126-960-11	ELECT 1MF	20% 50V	C538	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C317	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C539	1-126-967-11	ELECT 47MF	20% 16V
C318	1-163-007-11	CERAMIC CHIP 680PF	10% 50V	C540	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C320	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C541	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C321	1-126-933-11	ELECT 100MF	20% 16V	C542	1-126-301-11	ELECT 1MF	20% 50V
C322	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C543	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C323	1-126-934-11	ELECT 220MF	20% 16V	C544	1-126-967-11	ELECT 47MF	20% 16V
C324	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C545	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C325	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C546	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C326	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C547	1-126-301-11	ELECT 1MF	20% 50V
C327	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C548	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C328	1-126-964-11	ELECT 10MF	20% 50V	C549	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C329	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C601	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C330	1-126-964-11	ELECT 10MF	20% 50V	C602	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C331	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C603	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C332	1-126-964-11	ELECT 10MF	20% 50V	C604	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C333	1-126-964-11	ELECT 10MF	20% 50V	C605	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C334	1-164-346-11	CERAMIC CHIP 1MF	16V	C606	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C607	1-110-501-11	CERAMIC CHIP 0.33MF 10%	16V
C608	1-163-037-11	CERAMIC CHIP 0.022MF 10%	50V
C609	1-126-967-11	ELECT 47MF 20%	50V
C610	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C611	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C612	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C613	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C614	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C615	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
C616	1-126-967-11	ELECT 47MF 20%	50V
C617	1-164-222-11	CERAMIC CHIP 0.22MF 25V	
C618	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C620	1-126-960-11	ELECT 1MF 20%	50V
C621	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C622	1-113-503-11	CERAMIC CHIP 0.0039MF 5%	25V
C623	1-126-960-11	ELECT 1MF 20%	50V
C624	1-126-934-11	ELECT 220MF 20%	16V
C625	1-164-695-11	CERAMIC CHIP 0.0022MF 5%	50V
C626	1-163-139-00	CERAMIC CHIP 820PF 5%	50V
C627	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C628	1-163-012-00	CERAMIC CHIP 0.0018MF 5%	50V
C629	1-113-503-11	CERAMIC CHIP 0.0039MF 5%	25V
C630	1-163-017-00	CERAMIC CHIP 0.0047MF 10%	50V
C631	1-163-127-00	CERAMIC CHIP 270PF 5%	50V
C632	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
<FILTER>			
CF401	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
<CONNECTOR>			
CN1	* 1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CN2	* 1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CN3	* 1-564-521-11	PLUG, CONNECTOR 6P	
CN4	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
CN5	1-564-523-11	PLUG, CONNECTOR 8P	
CN201	* 1-564-512-11	PLUG, CONNECTOR 9P	
CN202	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN203	1-564-511-11	PLUG, CONNECTOR 8P	
CN204	* 1-564-514-11	PLUG, CONNECTOR 11P	
CN205	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN206	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN601	* 1-564-508-11	PLUG, CONNECTOR 5P	
<DIODE>			
D1	8-719-914-44	DIODE DAP202K	
D2	8-719-914-44	DIODE DAP202K	
D3	8-719-914-43	DIODE DAN202K	
D4	8-719-914-43	DIODE DAN202K	
D201	8-719-914-43	DIODE DAN202K	
D202	8-719-914-43	DIODE DAN202K	
D203	8-719-914-43	DIODE DAN202K	
D204	8-719-914-43	DIODE DAN202K	
D205	8-719-914-43	DIODE DAN202K	
D206	8-719-914-43	DIODE DAN202K	
D207	8-719-106-23	DIODE RD7.5M-B2	
D208	8-719-914-43	DIODE DAN202K	
D209	8-719-047-37	DIODE BAS16	
D210	8-719-047-37	DIODE BAS16	
D211	8-719-914-43	DIODE DAN202K	
D212	8-719-914-43	DIODE DAN202K	
D215	8-719-914-43	DIODE DAN202K	
D217	8-719-914-43	DIODE DAN202K	
D218	8-719-914-43	DIODE DAN202K	
D220	8-719-914-43	DIODE DAN202K	
D221	8-719-914-43	DIODE DAN202K	
D222	8-719-914-43	DIODE DAN202K	

REF. NO.	PART NO.	DESCRIPTION	REMARK
D223	8-719-914-43	DIODE DAN202K	
D224	8-719-914-43	DIODE DAN202K	
D225	8-719-914-43	DIODE DAN202K	
D226	8-719-914-43	DIODE DAN202K	
D227	8-719-914-43	DIODE DAN202K	
D602	8-719-914-43	DIODE DAN202K	
<DELAY LINE>			
DL201	1-415-810-11	DELAY LINE	
<FERRITE BEAD>			
FB1	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB2	1-412-911-11	INDUCTOR, FERRITE BEAD	
<FILTER>			
FL1	1-236-620-11	FILTER, LOW PASS	
FL2	1-236-620-11	FILTER, LOW PASS	
FL3	1-236-620-11	FILTER, LOW PASS	
FL201	1-239-803-11	FILTER, EMI	
<IC>			
IC1	8-752-372-78	IC CXD2024AQ	
IC2	8-759-711-62	IC NJM2240M	
IC3	8-759-439-58	IC TDA9143/N2	
IC4	8-759-710-29	IC NJM2235M	
IC5	8-759-288-85	IC TDA4665T-T	
IC6	8-759-324-35	IC SDA9188-3XPGE	
IC7	8-759-248-15	IC SDA9187-2XGEG	
IC8	8-759-183-35	IC TDA9160A	
IC10	8-759-288-85	IC TDA4665T-T	
IC201	8-759-370-64	IC TPU3040-TC20	
IC202	8-759-710-07	IC NJM2234M(T1)	
IC203	8-759-341-71	IC MB814100A-70PJ-T6	
IC204	8-759-277-89	IC ST24C16CM1-TR/A	
IC205	8-759-041-54	IC MN1382S	
IC206	8-759-275-36	IC TDA4780/V3	
IC207	8-752-873-89	IC CXP85460-033Q	
IC208	8-752-012-52	IC CX20125	
IC209	8-759-085-34	IC TDA2822D	
IC210	8-759-008-67	IC MC14066BF	
IC211	8-759-011-65	IC MC74HC4053F	
IC212	8-759-376-80	IC MSP3410B-PS-F7-T	
IC213	8-759-998-98	IC LM358D	
IC214	8-759-037-79	IC MC74HC163AF	
IC601	8-752-347-92	IC CXD2018Q	
IC602	8-759-998-98	IC LM358D	
IC603	8-759-083-85	IC LA7856A	
<CHIP CONDUCTOR>			
JR202	1-216-295-00	CONDUCTOR, CHIP	
JR203	1-216-295-00	CONDUCTOR, CHIP	
<COIL>			
L1	1-414-235-11	INDUCTOR, FERRITE BEAD	
L2	1-414-235-11	INDUCTOR, FERRITE BEAD	
L3	1-414-235-11	INDUCTOR, FERRITE BEAD	
L4	1-414-235-11	INDUCTOR, FERRITE BEAD	
L5	1-414-235-11	INDUCTOR, FERRITE BEAD	
L6	1-414-235-11	INDUCTOR, FERRITE BEAD	
L7	1-408-417-00	INDUCTOR 47UH	
L8	1-408-421-00	INDUCTOR 100UH	
L9	1-216-295-00	CONDUCTOR, CHIP	
L10	1-408-417-00	INDUCTOR 47UH	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L11	1-414-235-11	INDUCTOR, FERRITE BEAD		Q19	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L12	1-408-421-00	INDUCTOR 100UH		Q20	8-729-216-22	TRANSISTOR 2SA1162-G	
L13	1-216-295-00	CONDUCTOR, CHIP		Q22	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L14	1-408-418-00	INDUCTOR 56UH		Q23	8-729-216-22	TRANSISTOR 2SA1162-G	
L15	1-408-409-00	INDUCTOR 10UH					
L16	1-414-235-11	INDUCTOR, FERRITE BEAD		Q24	8-729-216-22	TRANSISTOR 2SA1162-G	
L17	1-414-235-11	INDUCTOR, FERRITE BEAD		Q25	8-729-216-22	TRANSISTOR 2SA1162-G	
L18	1-414-235-11	INDUCTOR, FERRITE BEAD		Q26	8-729-216-22	TRANSISTOR 2SA1162-G	
L19	1-414-235-11	INDUCTOR, FERRITE BEAD		Q27	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L20	1-414-235-11	INDUCTOR, FERRITE BEAD		Q28	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L21	1-408-417-00	INDUCTOR 47UH		Q29	8-729-027-59	TRANSISTOR DTC144EKA-T146	
L22	1-414-235-11	INDUCTOR, FERRITE BEAD		Q30	8-729-216-22	TRANSISTOR 2SA1162-G	
L23	1-216-295-00	CONDUCTOR, CHIP		Q32	8-729-216-22	TRANSISTOR 2SA1162-G	
L24	1-412-533-21	INDUCTOR 47UH		Q33	8-729-216-22	TRANSISTOR 2SA1162-G	
L25	1-408-417-00	INDUCTOR 47UH		Q34	8-729-216-22	TRANSISTOR 2SA1162-G	
L26	1-216-295-00	CONDUCTOR, CHIP		Q35	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L27	1-216-295-00	CONDUCTOR, CHIP		Q36	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L28	1-216-295-00	CONDUCTOR, CHIP		Q37	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L29	1-216-295-00	CONDUCTOR, CHIP		Q38	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L30	1-216-295-00	CONDUCTOR, CHIP		Q41	8-729-027-59	TRANSISTOR DTC144EKA-T146	
L31	1-216-295-00	CONDUCTOR, CHIP		Q42	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L32	1-216-295-00	CONDUCTOR, CHIP		Q43	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L33	1-216-295-00	CONDUCTOR, CHIP		Q44	8-729-216-22	TRANSISTOR 2SA1162-G	
L34	1-216-295-00	CONDUCTOR, CHIP		Q45	8-729-216-22	TRANSISTOR 2SA1162-G	
L35	1-216-295-00	CONDUCTOR, CHIP		Q46	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L36	1-216-295-00	CONDUCTOR, CHIP		Q47	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L201	1-414-234-11	INDUCTOR, FERRITE BEAD		Q48	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L202	1-408-417-00	INDUCTOR 47UH		Q49	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L203	1-408-409-00	INDUCTOR 10UH		Q52	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L204	1-408-417-00	INDUCTOR 47UH		Q201	8-729-216-22	TRANSISTOR 2SA1162-G	
L205	1-408-409-00	INDUCTOR 10UH		Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L206	1-408-405-00	INDUCTOR 4.7UH		Q203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L207	1-408-417-00	INDUCTOR 47UH		Q204	8-729-216-22	TRANSISTOR 2SA1162-G	
L208	1-408-409-00	INDUCTOR 10UH		Q205	8-729-216-22	TRANSISTOR 2SA1162-G	
L209	1-408-417-00	INDUCTOR 47UH		Q206	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L210	1-408-417-00	INDUCTOR 47UH		Q207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L211	1-408-417-00	INDUCTOR 47UH		Q208	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L212	1-408-417-00	INDUCTOR 47UH		Q209	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L213	1-408-417-00	INDUCTOR 47UH		Q210	8-729-216-22	TRANSISTOR 2SA1162-G	
L214	1-408-409-00	INDUCTOR 10UH		Q211	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L215	1-414-234-11	INDUCTOR, FERRITE BEAD		Q212	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L216	1-408-406-00	INDUCTOR 5.6UH		Q213	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L217	1-408-409-00	INDUCTOR 10UH		Q214	8-729-216-22	TRANSISTOR 2SA1162-G	
L218	1-414-235-11	INDUCTOR, FERRITE BEAD		Q215	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L219	1-408-417-00	INDUCTOR 47UH		Q216	8-729-216-22	TRANSISTOR 2SA1162-G	
L220	1-408-417-00	INDUCTOR 47UH		Q218	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L221	1-408-397-00	INDUCTOR 1UH		Q221	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L601	1-408-417-00	INDUCTOR 47UH		Q222	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L602	1-408-417-00	INDUCTOR 47UH		Q225	8-729-027-59	TRANSISTOR DTC144EKA-T146	
L603	1-408-409-00	INDUCTOR 10UH		Q226	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
<TRANSISTOR>				Q227	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q228	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q2	8-729-216-22	TRANSISTOR 2SA1162-G		Q229	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q230	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6	8-729-216-22	TRANSISTOR 2SA1162-G		Q231	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q7	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q232	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q233	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q9	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q234	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q10	8-729-216-22	TRANSISTOR 2SA1162-G		Q235	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q11	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q236	8-729-216-22	TRANSISTOR 2SA1162-G	
Q12	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q237	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q13	8-729-027-59	TRANSISTOR DTC144EKA-T146		Q238	8-729-216-22	TRANSISTOR 2SA1162-G	
Q14	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q239	8-729-216-22	TRANSISTOR 2SA1162-G	
Q15	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q240	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q16	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q241	8-729-216-22	TRANSISTOR 2SA1162-G	
Q17	8-729-027-59	TRANSISTOR DTC144EKA-T146		Q242	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q18	8-729-216-22	TRANSISTOR 2SA1162-G		Q243	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q244	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q245	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q246	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q247	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R25	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q248	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R26	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q249	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R27	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
Q250	8-729-216-22	TRANSISTOR 2SA1162-G					
Q251	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R28	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R29	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q252	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R30	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q253	8-729-216-22	TRANSISTOR 2SA1162-G		R31	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
Q254	8-729-216-22	TRANSISTOR 2SA1162-G		R32	1-216-109-00	METAL GLAZE 330K	5% 1/10W
Q255	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q256	8-729-216-22	TRANSISTOR 2SA1162-G		R33	1-216-047-91	METAL GLAZE 820	5% 1/10W
				R34	1-216-049-00	METAL GLAZE 1K	5% 1/10W
Q257	8-729-216-22	TRANSISTOR 2SA1162-G		R35	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
Q258	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R36	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
Q259	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R37	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q260	8-729-216-22	TRANSISTOR 2SA1162-G					
Q261	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R38	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
				R39	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
Q262	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R40	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q263	8-729-216-22	TRANSISTOR 2SA1162-G		R41	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q264	8-729-216-22	TRANSISTOR 2SA1162-G		R42	1-216-073-00	METAL GLAZE 10K	5% 1/10W
Q265	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q266	8-729-216-22	TRANSISTOR 2SA1162-G		R43	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R44	1-216-097-00	METAL GLAZE 100K	5% 1/10W
Q267	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R45	1-216-043-91	METAL GLAZE 560	5% 1/10W
Q268	8-729-216-22	TRANSISTOR 2SA1162-G		R46	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q269	8-729-216-22	TRANSISTOR 2SA1162-G		R47	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q270	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q271	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R48	1-216-101-00	METAL GLAZE 150K	5% 1/10W
				R49	1-216-666-11	METAL CHIP 4.3K	0.50% 1/10W
Q272	8-729-216-22	TRANSISTOR 2SA1162-G		R50	1-216-083-00	METAL GLAZE 27K	5% 1/10W
Q273	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R51	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
Q274	8-729-216-22	TRANSISTOR 2SA1162-G		R52	1-216-049-00	METAL GLAZE 1K	5% 1/10W
Q275	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q276	8-729-216-22	TRANSISTOR 2SA1162-G		R53	1-216-025-00	METAL GLAZE 100	5% 1/10W
				R54	1-216-657-11	METAL CHIP 1.8K	0.50% 1/10W
Q277	8-729-216-22	TRANSISTOR 2SA1162-G		R55	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q278	8-729-027-59	TRANSISTOR DTC144EKA-T146		R56	1-216-033-00	METAL GLAZE 220	5% 1/10W
Q279	8-729-027-59	TRANSISTOR DTC144EKA-T146		R57	1-216-103-00	METAL GLAZE 180K	5% 1/10W
Q280	8-729-027-59	TRANSISTOR DTC144EKA-T146					
Q281	8-729-027-59	TRANSISTOR DTC144EKA-T146		R58	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
				R59	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
Q282	8-729-027-59	TRANSISTOR DTC144EKA-T146		R60	1-216-089-00	METAL GLAZE 47K	5% 1/10W
Q286	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R61	1-216-043-91	METAL GLAZE 560	5% 1/10W
Q287	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R62	1-216-081-00	METAL GLAZE 22K	5% 1/10W
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R63	1-216-041-00	METAL GLAZE 470	5% 1/10W
				R64	1-216-043-91	METAL GLAZE 560	5% 1/10W
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R65	1-216-105-00	METAL GLAZE 220K	5% 1/10W
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R66	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R67	1-216-025-00	METAL GLAZE 100	5% 1/10W
Q603	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
<RESISTOR>							
R1	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R2	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R3	1-216-025-00	METAL GLAZE 100	5% 1/10W	R73	1-216-025-00	METAL GLAZE 100	5% 1/10W
R4	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R74	1-216-043-91	METAL GLAZE 560	5% 1/10W
R6	1-216-295-00	CONDUCTOR, CHIP		R75	1-216-033-00	METAL GLAZE 220	5% 1/10W
				R76	1-216-025-00	METAL GLAZE 100	5% 1/10W
R7	1-216-295-00	CONDUCTOR, CHIP		R77	1-216-295-00	CONDUCTOR, CHIP	
R9	1-216-095-00	METAL GLAZE 82K	5% 1/10W				
R10	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R78	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R11	1-216-033-00	METAL GLAZE 220	5% 1/10W	R79	1-216-635-11	METAL CHIP 220	0.50% 1/10W
R12	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R80	1-216-635-11	METAL CHIP 220	0.50% 1/10W
				R83	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R13	1-216-025-00	METAL GLAZE 100	5% 1/10W	R84	1-216-045-00	METAL GLAZE 680	5% 1/10W
R14	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
R15	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R85	1-216-295-00	CONDUCTOR, CHIP	
R16	1-216-025-00	METAL GLAZE 100	5% 1/10W	R86	1-216-037-00	METAL GLAZE 330	5% 1/10W
R17	1-216-041-00	METAL GLAZE 470	5% 1/10W	R87	1-216-031-00	METAL GLAZE 180	5% 1/10W
				R88	1-216-043-91	METAL GLAZE 560	5% 1/10W
R18	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W	R89	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R19	1-216-047-91	METAL GLAZE 820	5% 1/10W				
R20	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R90	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R21	1-216-077-00	METAL GLAZE 15K	5% 1/10W	R91	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R22	1-216-045-00	METAL GLAZE 680	5% 1/10W	R92	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
				R93	1-216-295-00	CONDUCTOR, CHIP	
R23	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W	R94	1-216-043-91	METAL GLAZE 560	5% 1/10W
R24	1-216-095-00	METAL GLAZE 82K	5% 1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R95	1-216-043-91	METAL GLAZE 560	5% 1/10W	R184	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R96	1-216-025-00	METAL GLAZE 100	5% 1/10W	R185	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R97	1-216-025-00	METAL GLAZE 100	5% 1/10W	R186	1-216-039-00	METAL GLAZE 390	5% 1/10W
R98	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R188	1-216-043-91	METAL GLAZE 560	5% 1/10W
R99	1-216-045-00	METAL GLAZE 680	5% 1/10W	R189	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R100	1-216-295-00	CONDUCTOR, CHIP		R190	1-216-025-00	METAL GLAZE 100	5% 1/10W
R101	1-216-033-00	METAL GLAZE 220	5% 1/10W	R191	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R102	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R192	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R105	1-216-025-00	METAL GLAZE 100	5% 1/10W	R193	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R106	1-216-025-00	METAL GLAZE 100	5% 1/10W	R194	1-216-025-00	METAL GLAZE 100	5% 1/10W
R107	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R195	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R108	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R196	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R109	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R197	1-216-025-00	METAL GLAZE 100	5% 1/10W
R110	1-216-025-00	METAL GLAZE 100	5% 1/10W	R198	1-216-025-00	METAL GLAZE 100	5% 1/10W
R111	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R199	1-216-025-00	METAL GLAZE 100	5% 1/10W
R113	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R201	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R114	1-216-025-91	METAL GLAZE 100	5% 1/10W	R202	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R116	1-216-041-00	METAL GLAZE 470	5% 1/10W	R203	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R117	1-216-046-00	METAL GLAZE 750	5% 1/10W	R204	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R118	1-216-025-00	METAL GLAZE 100	5% 1/10W	R205	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R119	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R206	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R120	1-216-295-00	CONDUCTOR, CHIP		R207	1-216-025-00	METAL GLAZE 100	5% 1/10W
R121	1-216-041-00	METAL GLAZE 470	5% 1/10W	R208	1-216-022-00	METAL GLAZE 75	5% 1/10W
R122	1-216-025-00	METAL GLAZE 100	5% 1/10W	R209	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R123	1-216-295-00	CONDUCTOR, CHIP		R210	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R124	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R211	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R125	1-216-295-91	CONDUCTOR, CHIP		R212	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R127	1-216-025-00	METAL GLAZE 100	5% 1/10W	R213	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R128	1-216-025-00	METAL GLAZE 100	5% 1/10W	R214	1-216-033-00	METAL GLAZE 220	5% 1/10W
R130	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R215	1-216-041-00	METAL GLAZE 470	5% 1/10W
R131	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R216	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R133	1-216-025-00	METAL GLAZE 100	5% 1/10W	R217	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R134	1-216-025-00	METAL GLAZE 100	5% 1/10W	R218	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R136	1-216-025-00	METAL GLAZE 100	5% 1/10W	R219	1-216-025-00	METAL GLAZE 100	5% 1/10W
R137	1-216-025-00	METAL GLAZE 100	5% 1/10W	R220	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R138	1-216-043-91	METAL GLAZE 560	5% 1/10W	R221	1-216-033-00	METAL GLAZE 220	5% 1/10W
R140	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R222	1-216-041-00	METAL GLAZE 470	5% 1/10W
R142	1-216-075-00	METAL GLAZE 12K	5% 1/10W	R223	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R143	1-216-025-00	METAL GLAZE 100	5% 1/10W	R224	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R144	1-216-049-91	METAL GLAZE 1K	5% 1/10W	R225	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R146	1-216-043-91	METAL GLAZE 560	5% 1/10W	R226	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R147	1-216-025-00	METAL GLAZE 100	5% 1/10W	R227	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R148	1-216-047-91	METAL GLAZE 820	5% 1/10W	R228	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R154	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R229	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R155	1-216-295-91	CONDUCTOR, CHIP		R230	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R156	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R231	1-216-033-00	METAL GLAZE 220	5% 1/10W
R158	1-216-043-91	METAL GLAZE 560	5% 1/10W	R232	1-216-041-00	METAL GLAZE 470	5% 1/10W
R159	1-216-043-91	METAL GLAZE 560	5% 1/10W	R233	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R162	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R234	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R163	1-216-079-00	METAL GLAZE 18K	5% 1/10W	R235	1-216-025-00	METAL GLAZE 100	5% 1/10W
R164	1-216-079-00	METAL GLAZE 18K	5% 1/10W	R236	1-216-033-00	METAL GLAZE 220	5% 1/10W
R165	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R237	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R166	1-216-083-00	METAL GLAZE 27K	5% 1/10W	R238	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R167	1-216-045-00	METAL GLAZE 680	5% 1/10W	R239	1-216-295-00	CONDUCTOR, CHIP	
R168	1-216-295-91	CONDUCTOR, CHIP		R240	1-216-033-00	METAL GLAZE 220	5% 1/10W
R169	1-216-025-00	METAL GLAZE 100	5% 1/10W	R241	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R170	1-216-025-00	METAL GLAZE 100	5% 1/10W	R242	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R171	1-216-025-00	METAL GLAZE 100	5% 1/10W	R243	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R172	1-216-039-00	METAL GLAZE 390	5% 1/10W	R244	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R173	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R245	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R174	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R247	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R175	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R248	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R176	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R249	1-216-025-00	METAL GLAZE 100	5% 1/10W
R177	1-216-025-00	METAL GLAZE 100	5% 1/10W	R250	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R179	1-216-045-00	METAL GLAZE 680	5% 1/10W	R251	1-216-041-00	METAL GLAZE 470	5% 1/10W
R180	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R252	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R181	1-216-025-00	METAL GLAZE 100	5% 1/10W	R253	1-216-025-00	METAL GLAZE 100	5% 1/10W
R182	1-216-089-00	METAL GLAZE 47K	5% 1/10W	R254	1-216-295-00	CONDUCTOR, CHIP	
R183	1-216-091-00	METAL GLAZE 56K	5% 1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R255	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R340	1-216-039-00	METAL GLAZE 390	5% 1/10W
R256	1-216-025-00	METAL GLAZE 100	5% 1/10W	R341	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R257	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R342	1-216-039-00	METAL GLAZE 390	5% 1/10W
				R343	1-216-043-91	METAL GLAZE 560	5% 1/10W
R258	1-216-025-00	METAL GLAZE 100	5% 1/10W	R344	1-216-045-00	METAL GLAZE 680	5% 1/10W
R259	1-216-033-00	METAL GLAZE 220	5% 1/10W				
R260	1-216-033-00	METAL GLAZE 220	5% 1/10W	R345	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R261	1-216-025-00	METAL GLAZE 100	5% 1/10W	R346	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R262	1-216-025-00	METAL GLAZE 100	5% 1/10W	R347	1-208-845-11	METAL GLAZE 1M	5% 1/10W
				R348	1-218-754-11	METAL CHIP 120K	0.50% 1/10W
R263	1-216-033-00	METAL GLAZE 220	5% 1/10W	R349	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R264	1-216-033-00	METAL GLAZE 220	5% 1/10W				
R265	1-216-025-00	METAL GLAZE 100	5% 1/10W	R350	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R266	1-216-033-00	METAL GLAZE 220	5% 1/10W	R351	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R267	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W	R352	1-216-073-00	METAL GLAZE 10K	5% 1/10W
				R353	1-216-033-00	METAL GLAZE 220	5% 1/10W
R268	1-216-043-91	METAL GLAZE 560	5% 1/10W	R354	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R274	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
R275	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R355	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R277	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R356	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R278	1-216-037-00	METAL GLAZE 330	5% 1/10W	R358	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R359	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R279	1-216-295-00	CONDUCTOR, CHIP		R360	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R281	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R282	1-216-025-00	METAL GLAZE 100	5% 1/10W	R361	1-216-041-00	METAL GLAZE 470	5% 1/10W
R283	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R362	1-216-041-00	METAL GLAZE 470	5% 1/10W
R284	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R363	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R364	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R285	1-216-295-00	CONDUCTOR, CHIP		R365	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R287	1-216-085-00	METAL GLAZE 33K	5% 1/10W				
R290	1-216-041-00	METAL GLAZE 470	5% 1/10W	R366	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R291	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R367	1-216-025-00	METAL GLAZE 100	5% 1/10W
R292	1-216-691-11	METAL CHIP 47K	0.50% 1/10W	R368	1-216-073-00	METAL GLAZE 10K	5% 1/10W
				R369	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R293	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R370	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R294	1-216-033-00	METAL GLAZE 220	5% 1/10W				
R295	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R371	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R297	1-216-037-00	METAL GLAZE 330	5% 1/10W	R372	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R298	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R373	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
				R374	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R299	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R375	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R300	1-216-085-00	METAL GLAZE 33K	5% 1/10W				
R302	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R376	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R305	1-216-035-00	METAL GLAZE 270	5% 1/10W	R377	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R306	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R378	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R379	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R307	1-216-033-00	METAL GLAZE 220	5% 1/10W	R380	1-216-041-00	METAL GLAZE 470	5% 1/10W
R308	1-216-073-00	METAL GLAZE 10K	5% 1/10W				
R311	1-216-033-00	METAL GLAZE 220	5% 1/10W	R381	1-216-041-00	METAL GLAZE 470	5% 1/10W
R312	1-216-037-00	METAL GLAZE 330	5% 1/10W	R382	1-216-041-00	METAL GLAZE 470	5% 1/10W
R313	1-216-025-00	METAL GLAZE 100	5% 1/10W	R383	1-216-041-00	METAL GLAZE 470	5% 1/10W
				R384	1-216-041-00	METAL GLAZE 470	5% 1/10W
R314	1-216-025-00	METAL GLAZE 100	5% 1/10W	R385	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R315	1-216-025-00	METAL GLAZE 100	5% 1/10W				
R316	1-216-025-00	METAL GLAZE 100	5% 1/10W	R386	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R317	1-216-025-00	METAL GLAZE 100	5% 1/10W	R387	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R318	1-216-025-00	METAL GLAZE 100	5% 1/10W	R388	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R389	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R319	1-216-025-00	METAL GLAZE 100	5% 1/10W	R390	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R320	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R321	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R391	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R322	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R392	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R323	1-216-025-00	METAL GLAZE 100	5% 1/10W	R393	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R394	1-216-025-00	METAL GLAZE 100	5% 1/10W
R324	1-216-025-00	METAL GLAZE 100	5% 1/10W	R395	1-216-047-91	METAL GLAZE 820	5% 1/10W
R325	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
R327	1-216-685-11	METAL CHIP 27K	0.50% 1/10W	R396	1-216-047-91	METAL GLAZE 820	5% 1/10W
R328	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R397	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R329	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R398	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R399	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R330	1-218-756-11	METAL CHIP 150K	0.50% 1/10W	R400	1-216-025-00	METAL GLAZE 100	5% 1/10W
R331	1-216-031-00	METAL GLAZE 180	5% 1/10W				
R332	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R401	1-216-025-00	METAL GLAZE 100	5% 1/10W
R333	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W	R402	1-216-025-00	METAL GLAZE 100	5% 1/10W
R334	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R403	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R404	1-216-107-00	METAL GLAZE 270K	5% 1/10W
R335	1-216-039-00	METAL GLAZE 390	5% 1/10W	R406	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R336	1-216-033-00	METAL GLAZE 220	5% 1/10W				
R337	1-216-025-00	METAL GLAZE 100	5% 1/10W	R407	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R338	1-216-025-00	METAL GLAZE 100	5% 1/10W	R408	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R339	1-216-039-00	METAL GLAZE 390	5% 1/10W	R409	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R410	1-216-047-91	METAL GLAZE 820	5% 1/10W

**B**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R411	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R412	1-216-295-00	CONDUCTOR, CHIP	
R413	1-216-025-00	METAL GLAZE 100	5% 1/10W
R414	1-216-025-00	METAL GLAZE 100	5% 1/10W
R415	1-216-047-91	METAL GLAZE 820	5% 1/10W
R416	1-216-043-91	METAL GLAZE 560	5% 1/10W
R417	1-216-045-00	METAL GLAZE 680	5% 1/10W
R418	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R419	1-216-001-00	METAL GLAZE 10	5% 1/10W
R420	1-216-025-00	METAL GLAZE 100	5% 1/10W
R421	1-216-295-00	CONDUCTOR, CHIP	
R422	1-216-041-00	METAL GLAZE 470	5% 1/10W
R423	1-216-041-00	METAL GLAZE 470	5% 1/10W
R424	1-216-037-00	METAL GLAZE 330	5% 1/10W
R425	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R426	1-216-037-00	METAL GLAZE 330	5% 1/10W
R427	1-216-025-00	METAL GLAZE 100	5% 1/10W
R428	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R429	1-216-041-00	METAL GLAZE 470	5% 1/10W
R430	1-216-045-00	METAL GLAZE 680	5% 1/10W
R431	1-216-041-00	METAL GLAZE 470	5% 1/10W
R432	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R433	1-249-399-11	CARBON 33	5% 1/4W F
R434	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R435	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R436	1-216-037-00	METAL GLAZE 330	5% 1/10W
R437	1-216-039-00	METAL GLAZE 390	5% 1/10W
R438	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R439	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R440	1-216-031-00	METAL GLAZE 180	5% 1/10W
R441	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R442	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R443	1-216-033-00	METAL GLAZE 220	5% 1/10W
R444	1-216-033-00	METAL GLAZE 220	5% 1/10W
R445	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R446	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R447	1-249-389-11	CARBON 4.7	5% 1/4W F
R448	1-216-013-00	METAL GLAZE 33	5% 1/10W
R449	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R450	1-216-039-00	METAL GLAZE 390	5% 1/10W
R451	1-216-041-00	METAL GLAZE 470	5% 1/10W
R452	1-216-025-00	METAL GLAZE 100	5% 1/10W
R453	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R454	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R455	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R456	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R457	1-216-025-00	METAL GLAZE 100	5% 1/10W
R458	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R459	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R460	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R461	1-216-041-00	METAL GLAZE 470	5% 1/10W
R462	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R463	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R464	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R465	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R466	1-216-041-00	METAL GLAZE 470	5% 1/10W
R467	1-216-047-91	METAL GLAZE 820	5% 1/10W
R468	1-216-047-91	METAL GLAZE 820	5% 1/10W
R469	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R470	1-249-389-11	CARBON 4.7	5% 1/4W F
R471	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R472	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R473	1-216-033-00	METAL GLAZE 220	5% 1/10W
R474	1-216-045-00	METAL GLAZE 680	5% 1/10W
R475	1-216-041-00	METAL GLAZE 470	5% 1/10W
R476	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R477	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R478	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R479	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R480	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R481	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R482	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R483	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R484	1-216-045-00	METAL GLAZE 680	5% 1/10W
R485	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R486	1-216-033-00	METAL GLAZE 220	5% 1/10W
R487	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R488	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R489	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R490	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R492	1-216-295-00	CONDUCTOR, CHIP	
R493	1-216-033-00	METAL GLAZE 220	5% 1/10W
R494	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R495	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R496	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R497	1-216-079-00	METAL GLAZE 18K	5% 1/10W
R498	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R499	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R500	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R501	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R502	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R503	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R504	1-216-079-00	METAL GLAZE 18K	5% 1/10W
R505	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R506	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R507	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R508	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R509	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R510	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R511	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R512	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R513	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R514	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R515	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R516	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R517	1-216-295-00	CONDUCTOR, CHIP	
R519	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R520	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R521	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R522	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R527	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R528	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R530	1-216-058-00	METAL GLAZE 2.4K	5% 1/10W
R531	1-216-058-00	METAL GLAZE 2.4K	5% 1/10W
R532	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R533	1-216-045-00	METAL GLAZE 680	5% 1/10W
R534	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R535	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R536	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R537	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R538	1-216-079-00	METAL GLAZE 18K	5% 1/10W
R539	1-216-079-00	METAL GLAZE 18K	5% 1/10W
R540	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R541	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R542	1-208-845-11	METAL GLAZE 1M	5% 1/10W
R543	1-216-045-00	METAL GLAZE 680	5% 1/10W
R545	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R546	1-216-033-00	METAL GLAZE 220	5% 1/10W
R547	1-216-001-00	METAL GLAZE 10	5% 1/10W
R548	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R551	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R553	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R555	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R556	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R558	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R559	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK
R561	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R562	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R563	1-249-402-11	CARBON 56	5% 1/4W F
R565	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R566	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R567	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R571	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R574	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R575	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R576	1-249-397-11	CARBON 22	5% 1/4W F
R577	1-249-397-11	CARBON 22	5% 1/4W F
R580	1-216-295-00	CONDUCTOR, CHIP	
R581	1-216-295-00	CONDUCTOR, CHIP	
R584	1-216-295-00	CONDUCTOR, CHIP	
R585	1-216-295-00	CONDUCTOR, CHIP	
R588	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R589	1-216-041-00	METAL GLAZE 470	5% 1/10W
R590	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R591	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R601	1-216-043-91	METAL GLAZE 560	5% 1/10W
R602	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R603	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R604	1-216-025-00	METAL GLAZE 100	5% 1/10W
R605	1-216-025-00	METAL GLAZE 100	5% 1/10W
R606	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R607	1-216-025-00	METAL GLAZE 100	5% 1/10W
R608	1-216-109-00	METAL GLAZE 330K	5% 1/10W
R609	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R610	1-216-045-00	METAL GLAZE 680	5% 1/10W
R611	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R612	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R613	1-216-295-00	CONDUCTOR, CHIP	
R614	1-216-295-00	CONDUCTOR, CHIP	
R615	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R616	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R617	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R618	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R620	1-216-674-11	METAL CHIP 9.1K	0.50% 1/10W
R622	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R623	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R624	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R625	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R627	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R628	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R629	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R631	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R632	1-216-687-11	METAL CHIP 33K	0.50% 1/10W
R633	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R634	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R635	1-216-025-00	METAL GLAZE 100	5% 1/10W
R636	1-216-295-00	CONDUCTOR, CHIP	
R640	1-216-025-00	METAL GLAZE 100	5% 1/10W
R641	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R4102	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R4103	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R4104	1-216-025-00	METAL GLAZE 100	5% 1/10W
R4105	1-216-025-00	METAL GLAZE 100	5% 1/10W
R4106	1-216-025-00	METAL GLAZE 100	5% 1/10W
R4107	1-216-025-00	METAL GLAZE 100	5% 1/10W
R4108	1-216-025-00	METAL GLAZE 100	5% 1/10W
R4109	1-216-025-00	METAL GLAZE 100	5% 1/10W
R4110	1-216-033-00	METAL GLAZE 220	5% 1/10W
R4111	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R4112	1-216-295-00	CONDUCTOR, CHIP	
R4113	1-216-295-00	CONDUCTOR, CHIP	
R4118	1-216-025-00	METAL GLAZE 100	5% 1/10W
R4120	1-216-295-00	CONDUCTOR, CHIP	
R4121	1-216-295-00	CONDUCTOR, CHIP	
R4124	1-216-295-00	CONDUCTOR, CHIP	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R4125	1-216-295-00	CONDUCTOR, CHIP	
R4127	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R4128	1-216-045-00	METAL GLAZE 680	5% 1/10W
R4129	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R4130	1-216-107-00	METAL GLAZE 270K	5% 1/10W
R4131	1-216-073-00	METAL GLAZE 10K	5% 1/10W
<VARIABLE RESISTOR>			
RV1	1-241-769-11	RES, ADJ, CARBON 470K	
RV2	1-241-769-11	RES, ADJ, CARBON 470K	
RV601	1-241-763-11	RES, ADJ, CERMET 4.7K	
<CRYSTAL>			
X1	1-567-505-11	OSCILLATOR, CRYSTAL	
X2	1-567-504-11	OSCILLATOR, CRYSTAL	
X3	1-567-505-11	OSCILLATOR, CRYSTAL	
X4	1-567-504-11	OSCILLATOR, CRYSTAL	
X5	1-760-095-21	VIBRATOR, CRYSTAL	
X201	1-760-509-21	VIBRATOR, CRYSTAL	
X202	1-760-180-11	VIBRATOR, CRYSTAL	
X203	1-579-977-21	VIBRATOR, CRYSTAL	
*****			
* A-1632-585-A A BOARD, COMPLETE			
*****			
4-382-854-11 SCREW (M3X10), P, SW (+)			
<CAPACITOR>			
C1001	1-162-114-00	CERAMIC 0.0047MF	2KV
C1002	1-107-637-11	ELECT 22MF	20% 160V
C1003	1-162-116-00	CERAMIC 680PF	10% 2KV
C1004	1-107-368-11	FILM 0.047MF	10% 200V
C1005	1-136-076-00	FILM 0.0085MF	3% 2KV
C1006	1-137-391-11	FILM 0.0047MF	5% 100V
C1007	1-126-959-11	ELECT 0.47MF	20% 50V
C1008	1-102-973-00	CERAMIC 100PF	5% 50V
C1009	1-136-598-11	FILM 3MF	5% 200V
C1010	1-102-030-00	CERAMIC 330PF	10% 500V
C1011	1-137-372-11	FILM 0.022MF	5% 50V
C1012	1-136-105-00	FILM 0.33MF	5% 200V
C1013	1-126-960-11	ELECT 1MF	20% 50V
C1014	1-107-368-11	FILM 0.047MF	10% 200V
C1015	1-136-756-11	FILM 0.24MF	5% 200V
C1016	1-107-638-11	ELECT 33MF	20% 160V
C1017	1-126-967-11	ELECT 47MF	20% 16V
C1018	1-126-967-11	ELECT 47MF	20% 16V
C1019	1-123-024-21	ELECT 33MF	160V
C1020	1-136-165-00	FILM 0.1MF	5% 50V
C1021	1-137-370-11	FILM 0.01MF	5% 50V
C1023	1-126-967-11	ELECT 47MF	20% 16V
C1025	1-126-967-11	ELECT 47MF	20% 16V
C1026	1-101-002-00	CERAMIC 0.0022MF	50V
C1027	1-136-105-00	FILM 0.33MF	5% 200V
C1033	1-126-967-11	ELECT 47MF	20% 16V
C1034	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C1035	1-126-967-11	ELECT 47MF	20% 16V
C1038	1-126-967-11	ELECT 47MF	20% 16V
C1039	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C1040	1-126-967-11	ELECT 47MF	20% 16V
C1042	1-104-664-11	ELECT 47MF	20% 25V
C1043	1-101-002-00	CERAMIC 0.0022MF	50V
C1044	1-101-002-00	CERAMIC 0.0022MF	50V
C1045	1-126-967-11	ELECT 47MF	20% 16V

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C1047	1-101-002-00	CERAMIC 0.0022MF	50V
C1048	1-126-967-11	ELECT 47MF 20%	16V
C1049	1-104-664-11	ELECT 47MF 20%	25V
C1050	1-101-002-00	CERAMIC 0.0022MF	50V
C1051	1-104-664-11	ELECT 47MF 20%	25V
C1052	1-126-967-11	ELECT 47MF 20%	16V
C1053	1-101-004-00	CERAMIC 0.01MF	50V
C1054	1-126-967-11	ELECT 47MF 20%	50V
C1055	1-126-964-11	ELECT 10MF 20%	50V
C1056	1-128-551-11	ELECT 22MF 20%	25V
C1057	1-102-114-00	CERAMIC 470PF 10%	50V
C1058	1-126-967-11	ELECT 47MF 20%	50V
C1059	1-126-967-11	ELECT 47MF 20%	50V
C1060	1-102-114-00	CERAMIC 470PF 10%	50V
C1061	1-126-967-11	ELECT 47MF 20%	16V
C1064	1-126-967-11	ELECT 47MF 20%	16V
C1065	1-102-114-00	CERAMIC 470PF 10%	50V
C1066	1-102-114-00	CERAMIC 470PF 10%	50V
C1067	1-126-967-11	ELECT 47MF 20%	16V
C1068	1-102-114-00	CERAMIC 470PF 10%	50V
C1069	1-126-967-11	ELECT 47MF 20%	16V
C1070	1-126-965-11	ELECT 22MF 20%	50V
C1071	1-102-114-00	CERAMIC 470PF 10%	50V
C1072	1-126-967-11	ELECT 47MF 20%	16V
C1073	1-102-114-00	CERAMIC 470PF 10%	50V
C1074	1-126-967-11	ELECT 47MF 20%	16V
C1075	1-126-967-11	ELECT 47MF 20%	16V
C1076	1-102-114-00	CERAMIC 470PF 10%	50V
C1077	1-126-964-11	ELECT 10MF 20%	50V
C1078	1-101-004-00	CERAMIC 0.01MF	50V
C1079	1-163-263-11	CERAMIC CHIP 330PF 5%	50V
C1080	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C1081	1-126-933-11	ELECT 100MF 20%	16V
C1082	1-126-933-11	ELECT 100MF 20%	16V
C1090	1-162-116-00	CERAMIC 680PF 10%	2KV
C1091	1-137-380-11	FILM 0.47MF 5%	50V
C3201	1-126-964-11	ELECT 10MF 20%	50V
C3202	1-126-964-11	ELECT 10MF 20%	50V
C3204	1-126-967-11	ELECT 47MF 20%	16V
C3205	1-126-301-11	ELECT 1MF 20%	50V
C3206	1-126-967-11	ELECT 47MF 20%	16V
C3207	1-128-550-11	ELECT 2200MF 20%	50V
C3208	1-128-550-11	ELECT 2200MF 20%	50V
C3209	1-136-165-00	FILM 0.1MF 5%	50V
C3210	1-136-165-00	FILM 0.1MF 5%	50V
C3211	1-136-165-00	FILM 0.1MF 5%	50V
C3212	1-136-165-00	FILM 0.1MF 5%	50V
C3213	1-107-715-11	ELECT 22MF 20%	50V
C3214	1-126-969-11	ELECT 220MF 20%	50V
C3215	1-126-965-11	ELECT 22MF 20%	50V
C3216	1-126-961-11	ELECT 2.2MF 20%	50V
<CONNECTOR>			
CN1001	*1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN1002	*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1003	*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1004	*1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1005	1-695-915-11	TAB (CONTACT)	
CN1006	*1-564-509-11	PLUG, CONNECTOR 6P	
CN1007	1-695-915-11	TAB (CONTACT)	
CN1008	*1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P	
CN1009	*1-508-768-00	PIN, CONNECTOR (5mm PITCH) 6P	
CN1010	*1-564-509-11	PLUG, CONNECTOR 6P	
CN1011	*1-564-509-11	PLUG, CONNECTOR 6P	
CN1012	*1-564-506-11	PLUG, CONNECTOR 3P	
CN1013	*1-564-515-11	PLUG, CONNECTOR 12P	
CN1016	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
CN3201	*1-564-510-11	PLUG, CONNECTOR 7P	

REF. NO.	PART NO.	DESCRIPTION	REMARK
CN3202	*1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P	
CN3203	*1-564-507-11	PLUG, CONNECTOR 4P	
<DIODE>			
D1001	8-719-018-82	DIODE RGP02-20EL-6394	
D1002	8-719-300-80	DIODE RU-1C	
D1004	8-719-911-19	DIODE 1SS119-25	
D1005	8-719-911-19	DIODE 1SS119-25	
D1006	8-719-911-19	DIODE 1SS119-25	
D1007	8-719-911-19	DIODE 1SS119-25	
D1008	8-719-911-19	DIODE 1SS119-25	
D1009	8-719-911-19	DIODE 1SS119-25	
D1012	8-719-150-92	DIODE RD33EB3T	
D1013	8-719-911-19	DIODE 1SS119-25	
D1014	8-719-911-19	DIODE 1SS119-25	
D1015	8-719-911-19	DIODE 1SS119-25	
D1016	8-719-911-19	DIODE 1SS119-25	
D1017	8-719-510-48	DIODE D1N20R	
D1018	8-719-510-48	DIODE D1N20R	
D3201	8-719-914-44	DIODE DAP202K	
D3202	8-719-914-43	DIODE DAN202K	
D3203	8-719-911-19	DIODE 1SS119-25	
D3204	8-719-914-43	DIODE DAN202K	
D3206	8-719-914-43	DIODE DAN202K	
D3207	8-719-914-43	DIODE DAN202K	
D3209	8-719-914-43	DIODE DAN202K	
D3210	8-719-911-19	DIODE 1SS119-25	
D3211	8-719-988-72	DIODE SC802-06	
D3212	8-719-911-19	DIODE 1SS119-25	
<IC>			
IC1001	8-759-457-44	IC KA78R05TU	
IC1002	8-759-457-44	IC KA78R05TU	
IC1003	8-759-189-48	IC PQ12RE11	
IC1004	8-759-095-63	IC PQ09RF2	
IC1005	8-759-701-88	IC NJM7912FA	
IC1006	8-759-991-41	IC LM78L05ACZ	
IC3201	8-759-190-89	IC TDA7265	
<IF BLOCK>			
IF1002	1-466-677-11	IF BLOCK (IFF-380)	
IF1003	1-466-138-11	IF BLOCK (IFD-380A)	
<COIL>			
L1001	1-411-189-11	COIL, CHOKE 15mH	
L1002	1-459-769-13	COIL, HORIZONTAL LINEARITY	
L1003	1-408-417-00	INDUCTOR 47UH	
L1005	1-408-421-00	INDUCTOR 100UH	
L1006	1-412-533-21	INDUCTOR 47UH	
L1007	1-408-417-00	INDUCTOR 47UH	
L1008	1-408-417-00	INDUCTOR 47UH	
L1009	1-408-417-00	INDUCTOR 47UH	
L1010	1-412-533-21	INDUCTOR 47UH	
L1012	1-408-417-00	INDUCTOR 47UH	
L1013	1-408-417-00	INDUCTOR 47UH	
<TRANSISTOR>			
Q1001	8-729-021-48	TRANSISTOR 2SD2348LBSONY	
Q1002	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q1003	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1004	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1005	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1006	8-729-201-32	TRANSISTOR 2SA1013-O	
Q1007	8-729-201-32	TRANSISTOR 2SA1013-O	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1008	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1049	1-249-429-11	CARBON 10K	5% 1/4W
Q1009	8-729-010-98	TRANSISTOR 2SA1492M-OPY		R1052	1-249-417-11	CARBON 1K	5% 1/4W
Q1010	8-729-304-92	TRANSISTOR 2SB649A-C		R1064	1-216-389-11	METAL OXIDE 1	5% 3W F
				R1075	1-249-419-11	CARBON 1.5K	5% 1/4W
Q1011	8-729-029-56	TRANSISTOR DTA144ESA		R1084	1-215-901-00	METAL OXIDE 33K	5% 2W F
Q1012	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q1013	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1086	1-249-427-11	CARBON 6.8K	5% 1/4W
Q1014	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1087	1-249-428-11	CARBON 8.2K	5% 1/4W
Q1015	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1088	1-249-432-11	CARBON 18K	5% 1/4W
				R1089	1-249-433-11	CARBON 22K	5% 1/4W
Q1016	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1093	1-249-409-11	CARBON 220	5% 1/4W
Q1017	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q1024	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1094	1-249-409-11	CARBON 220	5% 1/4W
Q1025	8-729-216-22	TRANSISTOR 2SA1162-G		R1095	1-249-409-11	CARBON 220	5% 1/4W
Q1026	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1096	1-249-409-11	CARBON 220	5% 1/4W
				R1097	1-249-433-11	CARBON 22K	5% 1/4W
Q3201	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1098	1-247-881-00	CARBON 120K	5% 1/4W
Q3204	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q3205	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1099	1-249-441-11	CARBON 100K	5% 1/4W
Q3206	8-729-216-22	TRANSISTOR 2SA1162-G		R1100	1-249-429-11	CARBON 10K	5% 1/4W
Q3207	8-729-216-22	TRANSISTOR 2SA1162-G		R1101	1-249-437-11	CARBON 47K	5% 1/4W
				R1102	1-249-422-11	CARBON 2.7K	5% 1/4W
Q3208	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1103	1-249-429-11	CARBON 10K	5% 1/4W
Q3209	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q3210	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R1104	1-249-437-11	CARBON 47K	5% 1/4W
<RESISTOR>				R1105	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1001	1-215-865-11	METAL OXIDE 220	5% 1W F	R1106	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1002	1-247-735-11	SOLID 47	20% 1/2W F	R1107	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R1003	1-216-478-11	METAL OXIDE 390	5% 3W F	R1108	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R1004	1-215-925-11	METAL OXIDE 22K	5% 3W F				
R1005	1-215-925-11	METAL OXIDE 22K	5% 3W F	R1109	1-216-077-00	METAL GLAZE 15K	5% 1/10W
				R3201	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1006	1-216-373-11	METAL OXIDE 2.2	5% 2W F	R3202	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1007	1-249-437-11	CARBON 47K	5% 1/4W F	R3203	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R1009	1-249-427-11	CARBON 6.8K	5% 1/4W F	R3204	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1010	1-249-417-11	CARBON 1K	5% 1/4W				
R1011	1-247-843-11	CARBON 3.3K	5% 1/4W	R3205	1-216-089-00	METAL GLAZE 47K	5% 1/10W
				R3206	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1012	1-249-417-11	CARBON 1K	5% 1/4W	R3207	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1015	1-215-429-00	METAL 2.2K	1% 1/4W	R3208	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1016	1-215-433-00	METAL 3.3K	1% 1/4W	R3209	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1017	1-249-425-11	CARBON 4.7K	5% 1/4W				
R1018	1-247-895-00	CARBON 470K	5% 1/4W	R3210	1-216-039-00	METAL GLAZE 390	5% 1/10W
				R3211	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R1019	1-249-421-11	CARBON 2.2K	5% 1/4W F	R3212	1-216-099-00	METAL GLAZE 120K	5% 1/10W
R1020	1-249-423-11	CARBON 3.3K	5% 1/4W F	R3213	1-216-039-00	METAL GLAZE 390	5% 1/10W
R1021	1-249-425-11	CARBON 4.7K	5% 1/4W F	R3214	1-216-079-00	METAL GLAZE 18K	5% 1/10W
R1022	1-215-443-00	METAL 8.2K	1% 1/4W				
R1023	1-249-421-11	CARBON 2.2K	5% 1/4W	R3215	1-216-079-00	METAL GLAZE 18K	5% 1/10W
				R3216	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1024	1-249-417-11	CARBON 1K	5% 1/4W	R3217	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R1025	1-215-425-00	METAL 1.5K	1% 1/4W	R3218	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R1026	1-215-925-11	METAL OXIDE 22K	5% 3W F	R3219	1-216-357-00	METAL OXIDE 4.7	5% 1W F
R1027	1-215-437-00	METAL 4.7K	1% 1/4W				
R1028	1-249-417-11	CARBON 1K	5% 1/4W	R3220	1-216-357-00	METAL OXIDE 4.7	5% 1W F
				R3221	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1029	1-249-429-11	CARBON 10K	5% 1/4W	R3222	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1030	1-249-417-11	CARBON 1K	5% 1/4W F	R3223	1-216-079-00	METAL GLAZE 18K	5% 1/10W
R1031	1-215-877-11	METAL OXIDE 22K	5% 1W F	R3224	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1032	1-249-430-11	CARBON 12K	5% 1/4W				
R1033	1-249-437-11	CARBON 47K	5% 1/4W	R3225	1-216-025-00	METAL GLAZE 100	5% 1/10W
				R3226	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1034	1-247-807-31	CARBON 100	5% 1/4W	R3227	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1035	1-249-418-11	CARBON 1.2K	5% 1/4W	R3228	1-216-049-00	METAL GLAZE 12K	5% 1/10W
R1036	1-249-425-11	CARBON 4.7K	5% 1/4W	R3229	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1037	1-249-429-11	CARBON 10K	5% 1/4W				
R1038	1-249-429-11	CARBON 10K	5% 1/4W	R3230	1-216-073-00	METAL GLAZE 10K	5% 1/10W
				R3231	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R1039	1-247-843-11	CARBON 3.3K	5% 1/4W	R3232	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1040	1-249-437-11	CARBON 47K	5% 1/4W	R3233	1-216-099-00	METAL GLAZE 120K	5% 1/10W
R1041	1-249-417-11	CARBON 1K	5% 1/4W	R3234	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W
R1042	1-249-429-11	CARBON 10K	5% 1/4W				
R1043	1-249-425-11	CARBON 4.7K	5% 1/4W	R3235	1-216-073-00	METAL GLAZE 10K	5% 1/10W
				R3236	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1044	1-247-807-31	CARBON 100	5% 1/4W	R3237	1-249-421-11	CARBON 2.2K	5% 1/4W
R1045	1-249-417-11	CARBON 1K	5% 1/4W				
R1046	1-247-807-31	CARBON 100	5% 1/4W	<RELAY>			
R1047	1-249-429-11	CARBON 10K	5% 1/4W	RY3201	1-515-833-11	RELAY	
R1048	1-247-807-31	CARBON 100	5% 1/4W				



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REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>			
T1001	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
<TEST PIN>			
TP1001	1-535-570-11	PIN, TERMINAL	
TP1002	1-535-570-11	PIN, TERMINAL	
<TUNER>			
TU1002	8-598-270-00	TUNER, ET BTP-RG421	
TU1003	8-598-270-00	TUNER, ET BTP-RG421	

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\* A-1637-007-A G BOARD, COMPLETE  
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4-382-854-11 SCREW (M3X10), P, SW (+)  
7-322-065-19 RUBBER, SILICON RTV (KE490W)

<CAPACITOR>

C6001	$\Delta$ 1-113-890-51	CERAMIC	0.0022MF	20%	250V
C6002	1-104-708-11	FILM	0.47MF	20%	250V
C6003	1-126-944-11	ELECT	3300MF	20%	25V
C6004	1-104-665-11	ELECT	100MF	20%	25V
C6006	1-104-706-11	FILM	0.22MF	20%	250V

C6007	$\Delta$ 1-113-890-51	CERAMIC	0.0022MF	20%	250V
C6008	1-104-706-11	FILM	0.22MF	20%	250V
C6009	1-102-114-00	CERAMIC	470PF	10%	50V
C6010	1-102-112-00	CERAMIC	330PF	10%	50V
C6011	1-107-678-91	ELECT	4.7MF	20%	450V

C6012	1-102-112-00	CERAMIC	330PF	10%	50V
C6013	1-137-479-11	FILM	1MF	10%	400V
C6014	1-126-968-11	ELECT	100MF	20%	50V
C6016	1-126-964-11	ELECT	10MF	20%	50V
C6017	1-164-346-11	CERAMIC CHIP	1MF		16V

C6018	1-117-195-11	ELECT	820MF	20%	400V
C6019	1-104-664-11	ELECT	47MF	20%	25V
C6020	1-104-665-11	ELECT	100MF	20%	25V
C6021	1-126-961-11	ELECT	2.2MF	20%	50V
C6022	1-137-370-11	FILM	0.01MF	5%	50V

C6023	1-102-112-00	CERAMIC	330PF	10%	50V
C6024	1-126-960-11	ELECT	1MF	20%	50V
C6025	1-136-165-00	FILM	0.1MF	5%	50V
C6026	1-104-665-11	ELECT	100MF	20%	25V
C6027	1-104-665-11	ELECT	100MF	20%	25V

C6028	1-164-625-11	CERAMIC	680PF	10%	500V
C6029	1-164-625-11	CERAMIC	680PF	10%	500V
C6030	1-115-405-11	FILM	0.039MF	3%	1KV
C6031	1-126-964-11	ELECT	10MF	20%	50V
C6032	1-126-964-11	ELECT	10MF	20%	50V

C6033	1-130-471-00	FILM	0.001MF	2%	50V
C6034	1-101-810-00	CERAMIC	100PF	5%	500V
C6035	1-101-810-00	CERAMIC	100PF	5%	500V
C6036	1-126-768-11	ELECT	2200MF	20%	16V
C6037	1-126-943-11	ELECT	2200MF	20%	25V

C6038	1-126-946-11	ELECT	6800MF	20%	25V
C6039	1-126-972-11	ELECT	1000MF	20%	50V
C6040	1-126-972-11	ELECT	1000MF	20%	50V
C6041	1-126-960-11	ELECT	1MF	20%	50V
C6042	1-104-665-11	ELECT	100MF	20%	25V

C6043	1-107-639-11	ELECT	47MF	20%	160V
C6044	1-107-641-11	ELECT	220MF	20%	160V
C6045	1-104-665-11	ELECT	100MF	20%	25V
C6046	1-104-665-11	ELECT	100MF	20%	25V
C6047	1-102-112-00	CERAMIC	330PF	10%	50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C6048	1-126-960-11	ELECT	1MF 20% 50V
C6049	1-136-165-00	FILM	0.1MF 5% 50V
C6050	1-109-954-11	ELECT	0.47MF 20% 160V
C6051	1-126-935-11	ELECT	470MF 20% 6.3V
C6052	1-164-625-11	CERAMIC	680PF 10% 500V
C6053	1-164-625-11	CERAMIC	680PF 10% 500V
C6054	1-107-639-11	ELECT	47MF 20% 160V
C6055	1-107-641-11	ELECT	220MF 20% 160V
C6056	1-137-370-11	FILM	0.01MF 5% 50V
C6057	1-102-030-00	CERAMIC	330PF 10% 500V
C6058	1-102-114-00	CERAMIC	470PF 10% 50V
C6059	1-102-114-00	CERAMIC	470PF 10% 50V
C6060	1-102-114-00	CERAMIC	470PF 10% 50V
C6061	1-102-114-00	CERAMIC	470PF 10% 50V
C6064	1-162-599-12	CERAMIC	0.0047MF 250V
C6065	1-162-599-12	CERAMIC	0.0047MF 250V

<CONNECTOR>

CN6002	1-695-915-11	TAB (CONTACT)	
CN6003	1-695-915-11	TAB (CONTACT)	
CN6005	* 1-580-843-11	PIN, CONNECTOR (POWER)	
CN6006	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN6007	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	

CN6008	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN6009	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN6010	* 1-508-768-00	PIN, CONNECTOR (5mm PITCH) 6P	
CN6011	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6012	* 1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P	

CN6013	* 1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P	
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<DIODE>

D6001	8-719-979-58	DIODE EGP10D	
D6002	8-719-979-58	DIODE EGP10D	
D6003	8-719-022-99	DIODE D6SB60L	
D6005	8-719-110-36	DIODE RD13ESB2	
D6006	8-719-911-19	DIODE ISS119-25	

D6007	8-719-911-55	DIODE U05G	
D6008	8-719-979-64	DIODE UF4005PKG23	
D6009	8-719-059-23	DIODE P6KE200AG23	
D6010	8-719-028-72	DIODE RGP02-17EL-6433	
D6011	8-719-150-92	DIODE RD33EB3T	

D6012	8-719-911-19	DIODE ISS119-25	
D6013	8-719-110-12	DIODE RD9.1ESB1	
D6014	8-719-911-19	DIODE ISS119-25	
D6015	8-719-911-19	DIODE ISS119-25	
D6016	8-719-911-19	DIODE ISS119-25	

D6017	8-719-510-64	DIODE S2LA20F	
D6018	8-719-911-19	DIODE ISS119-25	
D6019	8-719-911-19	DIODE ISS119-25	
D6020	8-719-911-19	DIODE ISS119-25	
D6021	8-719-979-64	DIODE UF4005PKG23	

D6022	8-719-110-52	DIODE RD20ESB1	
D6023	8-719-979-64	DIODE UF4005PKG23	
D6024	8-719-110-52	DIODE RD20ESB1	
D6025	8-719-510-64	DIODE S2LA20F	
D6026	8-719-110-52	DIODE RD20ESB1	

D6027	8-719-110-52	DIODE RD20ESB1	
D6032	8-719-911-19	DIODE ISS119-25	
D6033	8-719-911-19	DIODE ISS119-25	
D6035	8-719-018-83	DIODE D2S4M	
D6036	8-719-018-83	DIODE D2S4M	

D6037	8-719-031-78	DIODE S2LA40F	
D6038	8-719-312-47	DIODE RBA-406B	
D6039	8-719-510-12	DIODE D10SC4M	
D6040	8-719-027-20	DIODE D3S4M-F	
D6041	8-719-027-20	DIODE D3S4M-F	

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G

REF. NO.	PART NO.	DESCRIPTION	REMARK
D6042	8-719-979-64	DIODE UF4005PKG23	
D6043	8-719-110-52	DIODE RD20ESB1	
D6044	8-719-979-64	DIODE UF4005PKG23	
D6045	8-719-110-52	DIODE RD20ESB1	
D6046	8-719-110-52	DIODE RD20ESB1	
D6047	8-719-110-52	DIODE RD20ESB1	
$\Delta$ D6048	$\Delta$ 8-719-947-57	DIODE MT21-T-72-13B	
D6049	8-719-031-78	DIODE S2L40F	
D6050	8-719-911-19	DIODE 1SS119-25	
D6051	8-719-911-19	DIODE 1SS119-25	
D6052	8-719-027-20	DIODE D3S4M-F	
D6053	8-719-027-20	DIODE D3S4M-F	
<FUSE>			
$\Delta$ F6001	$\Delta$ 1-576-232-11	FUSE (H.B.C.) 5A/250V	
	* 1-533-725-11	HOLDER, FUSE ; F6001	
<FERRITE BEAD>			
FB6008	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB6009	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
<IC>			
IC6001	8-759-426-45	IC PWR-TOP210PFI	
IC6002	8-759-103-93	IC uPC393C	
IC6003	8-759-185-47	IC IR2112	
IC6004	8-759-077-25	IC IR3M02A	
$\Delta$ IC6005	$\Delta$ 8-749-010-65	PHOTO COUPLER PC123FY2	
$\Delta$ IC6006	$\Delta$ 8-749-010-65	PHOTO COUPLER PC123FY2	
IC6007	8-759-185-47	IC IR2112	
$\Delta$ IC6008	$\Delta$ 8-749-923-26	IC SE-135N-LF12	
<COIL>			
L6001	1-412-533-21	INDUCTOR 47UH	
L6002	1-412-525-31	INDUCTOR 10UH	
L6003	1-412-525-31	INDUCTOR 10UH	
L6004	1-412-525-31	INDUCTOR 10UH	
L6005	1-412-525-31	INDUCTOR 10UH	
L6006	1-406-659-11	COIL, CHOKE 10UH	
L6007	1-412-533-21	INDUCTOR 47UH	
L6008	1-412-533-21	INDUCTOR 47UH	
L6009	1-412-522-41	INDUCTOR 5.6UH	
L6010	1-412-522-41	INDUCTOR 5.6UH	
L6011	1-412-525-31	INDUCTOR 10UH	
L6012	1-406-971-21	COIL, CHOKE 10UH	
<TRANSISTOR>			
Q6001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6003	8-729-216-22	TRANSISTOR 2SA1162-G	
Q6004	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6005	8-729-216-22	TRANSISTOR 2SA1162-G	
Q6006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q6007	8-729-028-10	TRANSISTOR IRFI744G-LF	
Q6008	8-729-028-10	TRANSISTOR IRFI744G-LF	
Q6009	8-729-140-97	TRANSISTOR 2SB734-34	
Q6010	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6011	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q6012	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6013	8-729-820-82	TRANSISTOR 2SA1208-T	
Q6014	8-729-028-10	TRANSISTOR IRFI744G-LF	
Q6015	8-729-028-10	TRANSISTOR IRFI744G-LF	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R6000	1-202-719-00	SOLID 1M	20% 1/2W
R6001	1-249-417-11	CARBON 1K	5% 1/4W
$\Delta$ R6002	$\Delta$ 1-218-265-91	METAL 8.2M	5% 1W
R6003	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
R6004	1-215-486-00	METAL 510K	1% 1/4W
R6005	1-215-486-00	METAL 510K	1% 1/4W
R6008	1-216-099-00	METAL GLAZE 120K	5% 1/10W
R6009	1-247-889-00	CARBON 270K	5% 1/4W
R6010	1-247-889-00	CARBON 270K	5% 1/4W
R6011	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R6012	1-216-657-11	METAL CHIP 1.8K	0.50% 1/10W
R6013	1-202-962-11	WIREWOUND 3.3	5% 10W
R6014	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R6015	1-247-895-00	CARBON 470K	5% 1/4W
R6016	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R6018	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R6019	1-216-089-00	METAL GLAZE 47K	5% 1/10W
R6020	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
R6021	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R6022	1-249-397-11	CARBON 22	5% 1/4W
R6023	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6025	1-249-402-11	CARBON 56	5% 1/4W
R6027	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R6028	1-249-437-11	CARBON 47K	5% 1/4W
R6029	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R6030	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6031	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6032	1-202-933-61	FUSIBLE 0.1	10% 1/2W F
R6033	1-202-933-61	FUSIBLE 0.1	10% 1/2W F
R6034	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R6035	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R6036	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6037	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R6038	1-216-295-91	CONDUCTOR, CHIP	
R6039	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6040	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6041	1-249-397-11	CARBON 22	5% 1/4W F
R6042	1-249-397-11	CARBON 22	5% 1/4W F
R6043	1-249-425-11	CARBON 4.7K	5% 1/4W F
R6044	1-249-425-11	CARBON 4.7K	5% 1/4W F
R6045	1-216-660-11	METAL CHIP 2.4K	0.50% 1/10W
R6046	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R6047	1-249-437-11	CARBON 47K	5% 1/4W
R6048	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R6049	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R6050	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R6051	1-216-674-11	METAL CHIP 9.1K	0.50% 1/10W
R6052	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R6053	1-249-417-11	CARBON 1K	5% 1/4W
R6054	1-249-417-11	CARBON 1K	5% 1/4W
R6055	1-249-422-11	CARBON 2.7K	5% 1/4W
R6056	1-249-427-11	CARBON 6.8K	5% 1/4W
R6057	1-249-429-11	CARBON 10K	5% 1/4W
R6058	1-249-429-11	CARBON 10K	5% 1/4W
R6059	1-247-843-11	CARBON 3.3K	5% 1/4W
R6060	1-249-405-11	CARBON 100	5% 1/4W F
R6061	1-215-473-00	METAL 150K	1% 1/4W
R6062	1-249-417-11	CARBON 1K	5% 1/4W F
R6063	1-249-397-11	CARBON 22	5% 1/4W F
R6064	1-249-397-11	CARBON 22	5% 1/4W F
R6065	1-249-441-11	CARBON 100K	5% 1/4W
R6066	1-216-366-00	METAL OXIDE 0.56	5% 2W F
R6067	1-249-425-11	CARBON 4.7K	5% 1/4W F
R6068	1-249-425-11	CARBON 4.7K	5% 1/4W F
R6069	1-215-473-00	METAL 150K	1% 1/4W
R6070	1-249-417-11	CARBON 1K	5% 1/4W F
$\Delta$ R6071	$\Delta$ 1-215-449-00	METAL 15K	1% 1/4W



Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK		
R6072	Δ 1-215-473-81	METAL	150K	1%	1/4W
R6073	1-247-823-81	CARBON	470	5%	1/4W
R6075	1-216-422-21	METAL OXIDE	18	5%	1W
R6076	1-249-377-11	CARBON	0.47	5%	1/4W
R6077	1-249-377-11	CARBON	0.47	5%	1/4W
R6078	1-249-377-11	CARBON	0.47	5%	1/4W
R6081	1-249-377-11	CARBON	0.47	5%	1/4W
R6082	1-249-377-11	CARBON	0.47	5%	1/4W
R6083	1-249-377-11	CARBON	0.47	5%	1/4W
R6084	1-249-377-11	CARBON	0.47	5%	1/4W
R6085	1-212-849-00	FUSIBLE	4.7	5%	1/4W
R6086	1-249-429-11	CARBON	10K	5%	1/4W
<RELAY>					
RY6003	1-515-999-11	RELAY, POWER			
<TRANSFORMER>					
T6002	Δ 1-431-207-11	TRANSFORMER, LINE FILTER			
T6004	Δ 1-429-808-21	TRANSFORMER, CONVERTER			
T6005	Δ 1-429-807-11	TRANSFORMER, CONVERTER (PIT)			
*****					
* A-1642-192-A E BOARD, COMPLETE					
*****					
4-382-854-11 SCREW (M3X10), P, SW (+)					
7-322-065-19 RUBBER, SILICON RTV (KE490W)					
<CAPACITOR>					
C801	1-110-626-11	ELECT	330MF	20%	160V
C802	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C803	1-110-626-11	ELECT	330MF	20%	160V
C804	1-137-364-11	FILM	0.001MF	5%	50V
C805	1-136-173-00	FILM	0.47MF	5%	50V
C806	1-102-030-00	CERAMIC	330PF	10%	500V
C807	1-106-363-00	MYLAR	0.0068MF		200V
C808	1-107-636-11	ELECT	10MF	20%	160V
C809	1-126-967-11	ELECT	47MF	20%	50V
C810	1-130-481-00	FILM	0.0068MF	5%	50V
C811	1-137-475-11	FILM	2.2MF	10%	250V
C812	1-126-965-11	ELECT	22MF	20%	50V
C813	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C814	1-126-968-11	ELECT	100MF	20%	50V
C815	1-162-114-00	CERAMIC	0.0047MF		2KV
C816	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C817	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C818	Δ 1-109-833-11	FILM	0.0145MF	3%	2.5KV
C819	1-137-420-11	FILM	0.047MF	10%	100V
C820	1-126-959-11	ELECT	0.47MF	20%	50V
C821	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C823	1-136-601-11	FILM	0.01MF	5%	630V
C824	1-126-964-11	ELECT	10MF	20%	50V
C825	1-162-318-11	CERAMIC	0.001MF	10%	500V
C826	1-130-467-00	FILM	470PF	5%	50V
C828	1-111-036-11	ELECT	470MF	20%	16V
C830	1-137-420-11	FILM	0.047MF	10%	100V
C831	1-126-934-11	ELECT	220MF	20%	16V
C832	1-126-967-11	ELECT	47MF	20%	50V
C901	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C902	1-137-370-11	FILM	0.01MF	5%	50V
C903	1-137-431-11	FILM	560PF	5%	50V
C904	1-137-358-11	FILM	0.0001MF	5%	50V
C905	1-104-665-11	ELECT	100MF	20%	25V
C906	1-137-370-11	FILM	0.01MF	5%	50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C907	1-104-665-11	ELECT 100MF	20% 25V
C908	1-137-361-11	FILM 330PF	5% 50V
C909	1-126-960-11	ELECT 1MF	20% 50V
C911	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C912	1-126-960-11	ELECT 1MF	20% 50V
C913	1-126-960-11	ELECT 1MF	20% 50V
C915	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C916	1-126-963-11	ELECT 4.7MF	20% 50V
C917	1-126-964-11	ELECT 10MF	20% 50V
C918	1-137-364-11	FILM 0.001MF	5% 50V
C920	1-126-959-11	ELECT 0.47MF	20% 50V
C921	1-126-964-11	ELECT 10MF	20% 50V
C922	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C923	1-126-964-11	ELECT 10MF	20% 50V
C924	1-126-933-11	ELECT 100MF	20% 16V
C925	1-137-372-11	FILM 0.022MF	5% 50V
C926	1-126-942-61	ELECT 1000MF	20% 25V
C927	1-137-364-11	FILM 0.001MF	5% 50V
C928	1-126-940-11	ELECT 330MF	20% 25V
C929	1-137-416-11	FILM 0.01MF	10% 100V
C930	1-137-364-11	FILM 0.001MF	5% 50V
C931	1-126-967-11	ELECT 47MF	20% 50V
C932	1-126-960-11	ELECT 1MF	20% 50V
C934	1-137-399-11	FILM 0.1MF	5% 50V
C935	1-137-399-11	FILM 0.1MF	10% 100V
C936	1-126-964-11	ELECT 10MF	20% 50V
C937	1-126-964-11	ELECT 10MF	20% 50V
C938	1-126-933-11	ELECT 100MF	20% 16V
C939	1-126-964-11	ELECT 10MF	20% 50V
C940	1-104-664-11	ELECT 47MF	20% 25V
C941	1-126-964-11	ELECT 10MF	20% 50V
C942	1-104-664-11	ELECT 47MF	20% 25V
C943	1-126-965-11	ELECT 22MF	20% 50V
C944	1-126-964-11	ELECT 10MF	20% 50V
C945	1-126-964-11	ELECT 10MF	20% 50V
C946	1-126-961-11	ELECT 2.2MF	20% 50V
C947	1-126-942-61	ELECT 1000MF	20% 25V
C948	1-104-666-11	ELECT 220MF	20% 25V
C949	1-126-964-11	ELECT 10MF	20% 50V
C950	1-126-964-11	ELECT 10MF	20% 50V
C951	1-109-889-11	ELECT 1MF	20% 50V
C952	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C955	1-126-964-11	ELECT 10MF	20% 50V
C956	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C957	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C958	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C959	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C980	1-137-368-11	FILM 0.0047MF	5% 50V
<CHIP CONDUCTOR>			
CJ901	1-216-295-00	CONDUCTOR, CHIP	
CJ902	1-216-295-00	CONDUCTOR, CHIP	
CJ903	1-216-295-00	CONDUCTOR, CHIP	
CJ904	1-216-295-00	CONDUCTOR, CHIP	
<CONNECTOR>			
CN802	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN827	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN851	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN881	* 1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
CN882	* 1-691-135-11	PIN, CONNECTOR (PC BOARD) 4P	
CN884	* 1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P	
CN885	* 1-506-371-00	PIN, CONNECTOR 2P	
CN886	* 1-506-371-00	PIN, CONNECTOR 2P	
CN904	* 1-564-507-11	PLUG, CONNECTOR 4P	

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• The components identified by  $\Delta$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

E

REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>			
D801	8-719-109-85	DIODE RD5.1ESB2	
D802	8-719-404-49	DIODE MA111	
D803	8-719-971-20	DIODE ERC38-06	
D804	8-719-908-03	DIODE GP08D	
D805	$\Delta$ 8-719-979-40	DIODE ERC06-15STP11	
D806	8-719-911-19	DIODE 1SS119-25	
D807	$\Delta$ 8-719-979-40	DIODE ERC06-15STP11	
D808	8-719-500-71	DIODE D8LC40	
D809	8-719-911-19	DIODE 1SS119-25	
D810	8-719-945-80	DIODE ERC06-15S	
D812	8-719-404-49	DIODE MA111	
D814	8-719-920-67	DIODE ERC91-02	
D816	8-719-404-49	DIODE MA111	
D817	8-719-404-49	DIODE MA111	
D818	8-719-404-49	DIODE MA111	
D819	8-719-105-82	DIODE RD5.1M-B2	
D901	8-719-404-49	DIODE MA111	
D904	8-719-404-49	DIODE MA111	
D905	8-719-404-49	DIODE MA111	
D907	8-719-404-49	DIODE MA111	
D908	8-719-105-82	DIODE RD5.1M-B2	
D909	8-719-302-43	DIODE EL1Z	
D910	8-719-911-19	DIODE 1SS119-25	
D911	8-719-105-82	DIODE RD5.1M-B2	
D912	8-719-105-82	DIODE RD5.1M-B2	
D913	8-719-404-49	DIODE MA111	
D914	8-719-404-49	DIODE MA111	
D915	8-719-404-49	DIODE MA111	
D916	8-719-105-57	DIODE RD3.9M-B1	
D917	8-719-404-49	DIODE MA111	
D918	8-719-404-49	DIODE MA111	
D919	8-719-106-81	DIODE RD13M-B3	
D920	8-759-157-40	IC uPC574J	
D921	8-719-106-81	DIODE RD13M-B3	
D924	8-719-404-49	DIODE MA111	
D926	8-719-404-49	DIODE MA111	
D927	8-719-049-61	DIODE MA3043-M-(TX)	
D929	8-719-402-19	DIODE MA3100H-TX	
<FERRITE BEAD>			
FB002	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
<IC>			
IC901	8-759-133-90	IC uPC339C	
IC902	8-759-133-90	IC uPC339C	
IC903	8-759-711-28	IC NJM2058D	
IC904	8-759-634-51	IC M5218AP	
IC905	8-759-929-65	IC LM7912CT	
IC906	8-759-231-58	IC TA7812S	
<COIL>			
L801	1-406-665-11	COIL, CHOKE 100UH	
L802	1-406-665-11	COIL, CHOKE 100UH	
L803	1-422-613-11	COIL, AIR CORE	
L804	1-411-286-11	COIL, CHOKE 220UH	
L901	1-408-416-00	INDUCTOR 39UH	
L902	1-408-416-00	INDUCTOR 39UH	
<NEON LAMP>			
NL802	1-519-108-99	LAMP, NEON	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>			
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q802	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q803	8-729-122-12	TRANSISTOR 2SA1221-L	
Q806	$\Delta$ 8-729-805-07	TRANSISTOR 2SD1887-CA	
Q807	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q808	8-729-024-30	TRANSISTOR IRFI640LF	
Q809	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
Q810	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q811	8-729-823-81	TRANSISTOR 2SC4632LS-CB7	
Q813	8-729-216-22	TRANSISTOR 2SA1162-G	
Q901	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q902	8-729-140-93	TRANSISTOR 2SB733-34	
Q903	8-729-140-96	TRANSISTOR 2SD774-34	
Q904	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q905	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q906	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q907	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q908	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q909	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q910	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q911	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q912	8-729-216-22	TRANSISTOR 2SA1162-G	
Q914	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q915	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q916	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q917	8-729-027-38	TRANSISTOR DTA144EKA-T146	
<RESISTOR>			
R800	1-216-637-11	METAL CHIP 270	0.50% 1/10W
R801	1-216-041-00	METAL GLAZE 470	5% 1/10W
R802	1-249-421-11	CARBON 2.2K	5% 1/4W
R804	1-249-425-11	CARBON 4.7K	5% 1/4W F
R805	1-216-435-11	METAL OXIDE 2.7K	5% 1W F
R806	1-249-431-11	CARBON 15K	5% 1/4W F
R807	1-260-325-11	CARBON 560	5% 1/2W
$\Delta$ R808	$\Delta$	CARBON	1/4W
$\Delta$ R809	$\Delta$	CARBON	1/4W
R810	1-249-427-11	CARBON 6.8K	5% 1/4W F
R811	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R812	1-216-395-00	METAL OXIDE 3.3	5% 3W F
R813	1-216-484-00	METAL OXIDE 3.9K	5% 3W F
R814	1-215-919-11	METAL OXIDE 2.2K	5% 3W F
R816	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R817	1-216-395-00	METAL OXIDE 3.3	5% 3W F
R818	1-249-405-11	CARBON 100	5% 1/4W F
R819	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R820	1-215-905-11	METAL OXIDE 10	5% 3W F
R821	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R822	1-215-928-11	METAL OXIDE 68K	5% 3W F
R823	1-216-047-91	METAL GLAZE 820	5% 1/10W
R825	1-215-928-11	METAL OXIDE 68K	5% 3W F
R826	1-216-033-00	METAL GLAZE 220	5% 1/10W
R830	1-215-928-11	METAL OXIDE 68K	5% 3W F
R831	1-215-919-11	METAL OXIDE 2.2K	5% 3W F
R832	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R835	1-249-474-11	CARBON 1	5% 1/2W F
R836	1-202-818-00	SOLID 1K	20% 1/2W
R837	1-215-870-11	METAL OXIDE 1.5K	5% 1W F
R838	1-247-807-31	CARBON 100	5% 1/4W
R839	1-249-427-11	CARBON 6.8K	5% 1/4W F
R843	1-202-549-00	SOLID 100	20% 1/2W
R846	1-202-838-00	SOLID 100K	20% 1/2W
R847	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R849	1-249-433-11	CARBON 22K	5% 1/4W
R850	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R851	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W

# KP-E61MH11/E61MN11/E61SN11

RM-901

RM-901

RM-901



• The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par une trame et une marque ☒ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark ☒ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R852	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R854	1-249-447-11	CARBON 1	5% 1/4W F
R855	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
R856	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
R857	1-218-755-11	METAL CHIP 130K	0.50% 1/10W
R858	1-216-676-11	METAL CHIP 11K	0.50% 1/10W
R859	1-249-381-11	CARBON 1	5% 1/4W F
R883	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R888	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R901	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R902	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R903	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R904	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R905	1-247-739-11	CARBON 100	5% 1/2W F
R906	1-247-739-11	CARBON 100	5% 1/2W F
R907	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R908	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R909	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R910	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R911	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R912	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R913	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R914	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R915	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R916	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R917	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R918	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R919	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R920	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R921	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R922	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R923	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R924	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R926	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R927	1-249-377-11	CARBON 0.47	5% 1/4W F
R928	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R930	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R931	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R932	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R933	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R934	1-216-085-00	METAL GLAZE 33K	5% 1/10W
R935	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R936	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R937	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R938	1-216-679-11	METAL CHIP 15K	0.50% 1/10W
R939	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R940	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R941	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R942	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R943	1-249-377-11	CARBON 0.47	5% 1/4W F
R944	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R945	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R946	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R947	1-216-025-00	METAL GLAZE 100	5% 1/10W
R948	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R949	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
R950	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R952	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R954	1-214-777-00	METAL 100K	1% 1/4W
R955	1-214-769-00	METAL 47K	1% 1/4W
R956	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R957	1-218-754-11	METAL CHIP 120K	0.50% 1/10W
R958	1-218-756-11	METAL CHIP 150K	0.50% 1/10W
R959	1-214-757-00	METAL 15K	1% 1/4W
R960	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R961	1-216-025-00	METAL GLAZE 100	5% 1/10W
R962	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R963	1-214-749-00	METAL 6.8K	1% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R964	1-214-757-00	METAL 15K	1% 1/4W
R965	1-216-091-00	METAL GLAZE 56K	5% 1/10W
R966	1-214-757-00	METAL 15K	1% 1/4W
R967	1-216-025-00	METAL GLAZE 100	5% 1/10W
R968	1-214-751-00	METAL 8.2K	1% 1/4W
R969	1-215-423-00	METAL 1.2K	1% 1/4W
R970	1-214-757-00	METAL 15K	1% 1/4W
R971	1-208-845-11	METAL GLAZE 1M	5% 1/10W
R972	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R973	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R974	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R975	1-216-043-91	METAL GLAZE 560	5% 1/10W
R976	1-216-041-00	METAL GLAZE 470	5% 1/10W
R977	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R978	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R979	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R980	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R981	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R982	1-216-671-11	METAL CHIP 6.8K	0.50% 1/10W
R983	<input checked="" type="checkbox"/> 1-216-083-00	METAL GLAZE 27K	5% 1/10W
R984	1-216-681-11	METAL CHIP 18K	0.50% 1/10W
R985	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R986	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R987	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R988	<input checked="" type="checkbox"/> 1-216-462-00	METAL OXIDE 8.2K	5% 2W F
R989	1-215-897-11	METAL OXIDE 6.8K	5% 2W F
R990	1-216-672-11	METAL CHIP 7.5K	0.50% 1/10W
R991	1-247-807-31	CARBON 100	5% 1/4W
R995	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R996	1-216-683-11	METAL CHIP 22K	0.50% 1/10W
R997	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R998	1-216-073-00	METAL GLAZE 10K	5% 1/10W
<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK	
<TRANSFORMER>			
T801	<input checked="" type="checkbox"/> 1-453-189-11	TRANSFORMER ASSY, FLYBACK (NX-2631//A4S)	
T802	1-437-209-11	TRANSFORMER, HORIZONTAL DRIVE	
T803	<input checked="" type="checkbox"/> 1-427-980-11	TRANSFORMER, FERRITE (LOT)	
*****			
* A-1642-215-A D BOARD, COMPLETE *****			
4-382-854-11 SCREW (M3X10), P, SW (+)			
7-682-952-09 SCREW +PSW 3X16			
<CAPACITOR>			
C1502	1-126-943-11	ELECT 2200MF	20% 25V
C1503	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1504	1-126-943-11	ELECT 2200MF	20% 25V
C1505	1-136-177-00	FILM 1MF	5% 50V
C1506	1-102-228-00	CERAMIC 470PF	10% 500V
C1507	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1508	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1509	1-126-968-11	ELECT 100MF	20% 50V
C1510	1-137-401-11	FILM 0.22MF	10% 100V
C1511	1-137-423-11	FILM 0.15MF	10% 100V
C1512	1-137-423-11	FILM 0.15MF	10% 100V
C1513	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1514	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C1515	1-163-031-11	CERAMIC CHIP 0.01MF	50V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1516	1-136-177-00	FILM 1MF 5%	50V	C1845	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V
C1517	1-163-259-91	CERAMIC CHIP 220PF 5%	50V	C1846	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V
C1518	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V	C1847	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V
C1551	1-126-964-11	ELECT 10MF 20%	50V	C1848	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V
C1603	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1849	1-126-968-11	ELECT 100MF 20%	50V
C1604	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1850	1-126-968-11	ELECT 100MF 20%	50V
C1605	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1851	1-137-399-11	FILM 0.1MF 5%	50V
C1606	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1852	1-126-968-11	ELECT 100MF 20%	50V
C1607	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1853	1-137-378-11	FILM 0.22MF 5%	50V
C1608	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	C1854	1-126-963-11	ELECT 4.7MF 20%	50V
C1611	1-126-968-11	ELECT 100MF 20%	50V	C1855	1-126-960-11	ELECT 1MF 20%	50V
C1612	1-104-665-11	ELECT 100MF 20%	25V	C1856	1-104-665-11	ELECT 100MF 20%	25V
C1613	1-126-968-11	ELECT 100MF 20%	50V	C1857	1-126-968-11	ELECT 100MF 20%	50V
C1615	1-104-665-11	ELECT 100MF 20%	25V	C1858	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V
C1617	1-126-941-11	ELECT 470MF 20%	25V	C1859	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V
C1619	1-104-665-11	ELECT 100MF 20%	25V	C1860	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V
C1620	1-126-941-11	ELECT 470MF 20%	25V	C1861	1-126-968-11	ELECT 100MF 20%	50V
C1622	1-104-665-11	ELECT 100MF 20%	25V	C1862	1-126-960-11	ELECT 1MF 20%	50V
C1701	1-126-935-11	ELECT 470MF 20%	16V	C1863	1-136-173-00	FILM 0.47MF 5%	50V
C1702	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	C1864	1-126-960-11	ELECT 1MF 20%	50V
C1703	1-163-099-00	CERAMIC CHIP 18PF 5%	50V	C1865	1-126-960-11	ELECT 1MF 20%	50V
C1704	1-163-259-91	CERAMIC CHIP 220PF 5%	50V	C1866	1-126-967-11	ELECT 47MF 20%	50V
C1705	1-163-099-00	CERAMIC CHIP 18PF 5%	50V	<CHIP CONDUCTOR>			
C1709	1-163-031-11	CERAMIC CHIP 0.01MF 5%	50V	CJ1	1-216-295-00	CONDUCTOR, CHIP	
C1723	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	CJ2	1-216-295-00	CONDUCTOR, CHIP	
C1724	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	CJ3	1-216-295-00	CONDUCTOR, CHIP	
C1801	1-126-960-11	ELECT 1MF 20%	50V	CJ4	1-216-295-00	CONDUCTOR, CHIP	
C1802	1-126-964-11	ELECT 10MF 20%	50V	CJ5	1-216-295-00	CONDUCTOR, CHIP	
C1803	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ6	1-216-295-00	CONDUCTOR, CHIP	
C1805	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ7	1-216-295-00	CONDUCTOR, CHIP	
C1806	1-216-295-00	CONDUCTOR, CHIP		CJ8	1-216-295-00	CONDUCTOR, CHIP	
C1807	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ9	1-216-295-00	CONDUCTOR, CHIP	
C1808	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ10	1-216-295-00	CONDUCTOR, CHIP	
C1809	1-104-661-91	ELECT 330MF 20%	16V	CJ11	1-216-295-00	CONDUCTOR, CHIP	
C1810	1-104-661-91	ELECT 330MF 20%	16V	CJ12	1-216-295-00	CONDUCTOR, CHIP	
C1811	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ13	1-216-295-00	CONDUCTOR, CHIP	
C1812	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ14	1-216-295-00	CONDUCTOR, CHIP	
C1813	1-163-275-11	CERAMIC CHIP 1000PF 5%	50V	CJ15	1-216-295-00	CONDUCTOR, CHIP	
C1814	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ16	1-216-295-00	CONDUCTOR, CHIP	
C1816	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	CJ17	1-216-295-00	CONDUCTOR, CHIP	
C1817	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	CJ18	1-216-295-00	CONDUCTOR, CHIP	
C1818	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ19	1-216-295-00	CONDUCTOR, CHIP	
C1819	1-126-933-11	ELECT 100MF 20%	16V	CJ20	1-216-295-00	CONDUCTOR, CHIP	
C1820	1-163-005-11	CERAMIC CHIP 470PF 10%	50V	CJ21	1-216-295-00	CONDUCTOR, CHIP	
C1821	1-126-959-11	ELECT 0.47MF 20%	50V	CJ22	1-216-295-00	CONDUCTOR, CHIP	
C1822	1-163-005-11	CERAMIC CHIP 470PF 10%	50V	CJ23	1-216-295-00	CONDUCTOR, CHIP	
C1823	1-126-960-11	ELECT 1MF 20%	50V	CJ24	1-216-295-00	CONDUCTOR, CHIP	
C1824	1-126-960-11	ELECT 1MF 20%	50V	CJ25	1-216-295-00	CONDUCTOR, CHIP	
C1825	1-126-967-11	ELECT 47MF 20%	50V	CJ26	1-216-295-00	CONDUCTOR, CHIP	
C1826	1-126-967-11	ELECT 47MF 20%	50V	CJ27	1-216-295-00	CONDUCTOR, CHIP	
C1827	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ28	1-216-295-00	CONDUCTOR, CHIP	
C1828	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ29	1-216-295-00	CONDUCTOR, CHIP	
C1829	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ30	1-216-295-00	CONDUCTOR, CHIP	
C1830	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ31	1-216-295-00	CONDUCTOR, CHIP	
C1831	1-104-661-91	ELECT 330MF 20%	16V	CJ32	1-216-295-00	CONDUCTOR, CHIP	
C1832	1-104-661-91	ELECT 330MF 20%	16V	CJ33	1-216-295-00	CONDUCTOR, CHIP	
C1833	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ34	1-216-295-00	CONDUCTOR, CHIP	
C1834	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ35	1-216-295-00	CONDUCTOR, CHIP	
C1835	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ36	1-216-295-00	CONDUCTOR, CHIP	
C1836	1-163-809-11	CERAMIC CHIP 0.047MF 10%	25V	CJ37	1-216-295-00	CONDUCTOR, CHIP	
C1837	1-164-489-11	CERAMIC CHIP 0.22MF 10%	16V	CJ38	1-216-295-00	CONDUCTOR, CHIP	
C1838	1-126-968-11	ELECT 100MF 20%	50V	CJ39	1-216-295-00	CONDUCTOR, CHIP	
C1839	1-126-968-11	ELECT 100MF 20%	50V	CJ40	1-216-295-00	CONDUCTOR, CHIP	
C1840	1-126-960-11	ELECT 1MF 20%	50V	CJ42	1-216-295-00	CONDUCTOR, CHIP	
C1841	1-126-967-11	ELECT 47MF 20%	50V	CJ43	1-216-295-00	CONDUCTOR, CHIP	
C1842	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	CJ44	1-216-295-00	CONDUCTOR, CHIP	
C1843	1-163-251-11	CERAMIC CHIP 100PF 5%	50V	CJ45	1-216-295-00	CONDUCTOR, CHIP	
C1844	1-126-967-11	ELECT 47MF 20%	50V	CJ46	1-216-295-00	CONDUCTOR, CHIP	



Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
CJ47	1-216-295-00	CONDUCTOR, CHIP	
CJ48	1-216-295-00	CONDUCTOR, CHIP	
CJ49	1-216-295-00	CONDUCTOR, CHIP	
CJ50	1-216-295-00	CONDUCTOR, CHIP	
CJ51	1-216-295-00	CONDUCTOR, CHIP	
CJ52	1-216-295-00	CONDUCTOR, CHIP	
CJ53	1-216-295-00	CONDUCTOR, CHIP	
CJ54	1-216-295-00	CONDUCTOR, CHIP	
CJ56	1-216-295-00	CONDUCTOR, CHIP	
CJ57	1-216-295-00	CONDUCTOR, CHIP	
CJ58	1-216-295-00	CONDUCTOR, CHIP	
CJ59	1-216-295-00	CONDUCTOR, CHIP	
CJ60	1-216-295-00	CONDUCTOR, CHIP	
CJ62	1-216-295-00	CONDUCTOR, CHIP	
CJ63	1-216-295-00	CONDUCTOR, CHIP	
CJ64	1-216-295-00	CONDUCTOR, CHIP	

<CONNECTOR>

CN1509	*1-564-506-11	PLUG, CONNECTOR 3P
CN1513	*1-564-506-11	PLUG, CONNECTOR 3P
CN1612	*1-564-507-11	PLUG, CONNECTOR 4P
CN1642	*1-564-507-11	PLUG, CONNECTOR 4P
CN1672	*1-564-507-11	PLUG, CONNECTOR 4P
CN1716	*1-564-507-11	PLUG, CONNECTOR 4P
CN1756	*1-564-508-11	PLUG, CONNECTOR 5P
CN1757	*1-564-515-11	PLUG, CONNECTOR 12P

<DIODE>

D1501	8-719-908-03	DIODE GP08D
D1502	8-719-109-89	DIODE RD5.6ESB2
D1503	8-719-971-20	DIODE ERC38-06
D1505	8-719-109-89	DIODE RD5.6ESB2
D1551	8-719-109-71	DIODE RD3.9ESB1
D1552	8-719-991-33	DIODE ISS133T-77
D1553	8-719-991-33	DIODE ISS133T-77
D1601	8-719-908-03	DIODE GP08D
D1602	8-719-908-03	DIODE GP08D
D1603	8-719-908-03	DIODE GP08D
D1604	8-719-908-03	DIODE GP08D
D1803	8-719-991-33	DIODE ISS133T-77
D1827	8-719-982-03	DIODE MTZJ-3.6A
D1931	8-719-924-16	DIODE MTZJ-T-77-24
D1932	8-719-924-16	DIODE MTZJ-T-77-24
D1934	8-719-924-16	DIODE MTZJ-T-77-24
D1935	8-719-924-16	DIODE MTZJ-T-77-24
D1936	8-719-924-16	DIODE MTZJ-T-77-24
D1937	8-719-924-16	DIODE MTZJ-T-77-24
D1942	8-719-924-16	DIODE MTZJ-T-77-24
D1945	8-719-924-16	DIODE MTZJ-T-77-24
D1946	8-719-924-16	DIODE MTZJ-T-77-24
D1947	8-719-924-16	DIODE MTZJ-T-77-24
D1948	8-719-921-86	DIODE MTZJ-13
D1949	8-719-924-16	DIODE MTZJ-T-77-24
D1951	8-719-921-86	DIODE MTZJ-13
D1953	8-719-921-86	DIODE MTZJ-13
D1954	8-719-921-86	DIODE MTZJ-13

<FUSE>

F1601	$\Delta$ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V
	1-533-223-11	CLIP, FUSE ; F1601
F1602	$\Delta$ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V
	1-533-223-11	CLIP, FUSE ; F1602

<IC>

IC1501	8-759-192-71	IC STV9379
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REF. NO.	PART NO.	DESCRIPTION	REMARK
IC1601	8-749-010-88	IC STK392-010	
IC1602	8-749-010-88	IC STK392-010	
IC1701	8-752-861-57	IC CXP85112B-613S	
IC1702	8-759-041-54	IC MN1382S	
IC1801	8-759-327-52	IC PM0002B	
IC1802	8-759-327-51	IC PA0053B	
IC1803	8-759-012-67	IC MC7905CT	
IC1804	8-759-231-53	IC TA7805S	
IC1805	8-759-327-52	IC PM0002B	
IC1806	8-759-327-51	IC PA0053B	
IC1807	8-759-929-65	IC LM7912CT	
IC1808	8-759-231-58	IC TA7812S	
IC1809	8-759-327-52	IC PM0002B	
IC1931	8-759-711-28	IC NJM2058D	
IC1932	8-759-711-28	IC NJM2058D	

<COIL>

L1501	1-412-533-21	INDUCTOR 47UH
L1502	1-412-533-21	INDUCTOR 47UH
L1503	1-412-524-11	INDUCTOR 8.2UH
L1515	1-410-470-11	INDUCTOR 10UH
L1516	1-410-482-31	INDUCTOR 100UH
L1701	1-410-470-11	INDUCTOR 10UH
L1801	1-406-975-21	COIL, CHOKE 47UH
L1802	1-406-975-21	COIL, CHOKE 47UH

<TRANSISTOR>

Q1501	8-729-422-27	TRANSISTOR 2SD601A-Q
Q1502	8-729-422-27	TRANSISTOR 2SD601A-Q
Q1551	8-729-216-22	TRANSISTOR 2SA1162-G
Q1552	8-729-422-27	TRANSISTOR 2SD601A-Q
Q1701	8-729-422-27	TRANSISTOR 2SD601A-Q
Q1801	8-729-422-27	TRANSISTOR 2SD601A-Q
Q1802	8-729-216-22	TRANSISTOR 2SA1162-G
Q1804	8-729-422-27	TRANSISTOR 2SD601A-Q

<RESISTOR>

R1501	1-216-049-00	METAL GLAZE 1K	5%	1/10W
R1502	1-216-681-11	METAL CHIP 18K	0.50%	1/10W
R1503	1-216-653-11	METAL CHIP 1.2K	0.50%	1/10W
R1504	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1505	1-216-085-00	METAL GLAZE 33K	5%	1/10W
R1506	1-216-049-00	METAL GLAZE 1K	5%	1/10W
R1507	1-216-683-11	METAL CHIP 22K	0.50%	1/10W
R1508	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1509	1-249-383-11	CARBON 1.5	5%	1/4W F
R1510	1-214-661-21	METAL 1.5	1%	1/4W
R1512	1-215-912-11	METAL OXIDE 150	5%	3W F
R1514	1-216-635-11	METAL CHIP 220	0.50%	1/10W
R1515	1-216-645-11	METAL CHIP 560	0.50%	1/10W
R1516	1-214-661-21	METAL 1.5	1%	1/4W
R1517	1-216-647-11	METAL CHIP 680	0.50%	1/10W
R1518	1-216-661-11	METAL CHIP 2.7K	0.50%	1/10W
R1519	1-249-377-11	CARBON 0.47	5%	1/4W F
R1520	1-249-377-11	CARBON 0.47	5%	1/4W F
R1521	1-216-049-00	METAL GLAZE 1K	5%	1/10W
R1522	1-216-049-00	METAL GLAZE 1K	5%	1/10W
R1523	1-216-033-00	METAL GLAZE 220	5%	1/10W
R1551	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1552	1-216-063-91	METAL GLAZE 3.9K	5%	1/10W
R1553	1-216-077-00	METAL GLAZE 15K	5%	1/10W
R1554	1-216-049-00	METAL GLAZE 1K	5%	1/10W
R1559	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R1562	1-216-025-00	METAL GLAZE 100	5%	1/10W
R1603	1-216-663-11	METAL CHIP 3.3K	0.50%	1/10W
R1604	1-216-663-11	METAL CHIP 3.3K	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1605	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W	R1829	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1606	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W	R1830	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1607	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W	R1831	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1608	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W	R1832	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R1610	1-214-729-00	METAL 1K	1% 1/4W	R1833	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1612	1-214-729-00	METAL 1K	1% 1/4W	R1834	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1613	1-214-673-00	METAL 4.7	1% 1/4W	R1835	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1615	1-214-673-00	METAL 4.7	1% 1/4W	R1836	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1616	1-214-673-00	METAL 4.7	1% 1/4W	R1837	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1618	1-214-673-00	METAL 4.7	1% 1/4W	R1838	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R1619	1-214-673-00	METAL 4.7	1% 1/4W	R1839	1-216-031-00	METAL GLAZE 180	5% 1/10W
R1620	1-214-673-00	METAL 4.7	1% 1/4W	R1840	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1621	1-214-673-00	METAL 4.7	1% 1/4W	R1841	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1622	1-214-673-00	METAL 4.7	1% 1/4W	R1842	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1623	1-214-729-00	METAL 1K	1% 1/4W	R1843	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R1624	1-214-729-00	METAL 1K	1% 1/4W	R1844	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1625	1-214-673-00	METAL 4.7	1% 1/4W	R1846	1-216-125-00	METAL GLAZE 1.5M	5% 1/10W
R1626	1-214-673-00	METAL 4.7	1% 1/4W	R1847	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1627	1-214-673-00	METAL 4.7	1% 1/4W	R1849	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R1628	1-214-673-00	METAL 4.7	1% 1/4W	R1850	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R1629	1-214-673-00	METAL 4.7	1% 1/4W	R1851	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1630	1-214-673-00	METAL 4.7	1% 1/4W	R1852	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R1631	1-214-729-00	METAL 1K	1% 1/4W	R1853	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1632	1-214-673-00	METAL 4.7	1% 1/4W	R1854	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1633	1-214-673-00	METAL 4.7	1% 1/4W	R1855	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R1634	1-214-729-00	METAL 1K	1% 1/4W	R1856	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1635	1-214-673-00	METAL 4.7	1% 1/4W	R1857	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1636	1-214-673-00	METAL 4.7	1% 1/4W	R1858	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R1637	1-214-673-00	METAL 4.7	1% 1/4W	R1859	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1638	1-214-673-00	METAL 4.7	1% 1/4W	R1860	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1639	1-214-673-00	METAL 4.7	1% 1/4W	R1861	1-216-473-11	METAL OXIDE 56	5% 3W F
R1640	1-214-673-00	METAL 4.7	1% 1/4W	R1862	1-216-473-11	METAL OXIDE 56	5% 3W F
R1641	1-214-673-00	METAL 4.7	1% 1/4W	R1863	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1642	1-214-673-00	METAL 4.7	1% 1/4W	R1864	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1717	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1865	1-216-473-11	METAL OXIDE 56	5% 3W F
R1721	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1866	1-216-473-11	METAL OXIDE 56	5% 3W F
R1737	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1867	1-218-761-11	METAL CHIP 240K	0.50% 1/10W
R1740	1-216-025-00	METAL GLAZE 100	5% 1/10W	R1868	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1748	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1869	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1749	1-216-295-00	CONDUCTOR, CHIP	5% 1/10W	R1870	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1751	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1871	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1752	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1872	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1753	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R1873	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1760	1-216-295-00	CONDUCTOR, CHIP	5% 1/10W	R1874	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1788	1-216-675-11	METAL CHIP 10K	0.50% 1/10W	R1875	1-216-687-11	METAL CHIP 33K	0.50% 1/10W
R1801	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R1876	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1802	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R1877	1-216-695-11	METAL CHIP 68K	0.50% 1/10W
R1804	1-216-295-00	CONDUCTOR, CHIP	5% 1/10W	R1878	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1806	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1879	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1807	1-216-077-00	METAL GLAZE 15K	5% 1/10W	R1880	1-216-678-11	METAL CHIP 13K	0.50% 1/10W
R1808	1-216-049-00	METAL GLAZE 1K	5% 1/10W	R1881	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R1809	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1883	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R1810	1-216-097-00	METAL GLAZE 100K	5% 1/10W	R1884	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1811	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R1885	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1812	1-216-097-00	METAL GLAZE 100K	5% 1/10W	R1886	1-216-031-00	METAL GLAZE 180	5% 1/10W
R1813	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W	R1887	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1815	1-218-762-11	METAL CHIP 270K	0.50% 1/10W	R1888	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R1816	1-216-097-00	METAL GLAZE 100K	5% 1/10W	R1889	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R1817	1-216-033-00	METAL GLAZE 220	5% 1/10W	R1890	1-216-125-00	METAL GLAZE 1.5M	5% 1/10W
R1818	1-216-025-00	METAL GLAZE 100	5% 1/10W	R1891	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1819	1-216-025-00	METAL GLAZE 100	5% 1/10W	R1892	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R1820	1-216-025-00	METAL GLAZE 100	5% 1/10W	R1893	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R1821	1-216-097-00	METAL GLAZE 100K	5% 1/10W	R1894	1-249-389-11	CARBON 4.7	5% 1/4W F
R1824	1-216-685-11	METAL CHIP 27K	0.50% 1/10W	R1895	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1825	1-216-685-11	METAL CHIP 27K	0.50% 1/10W	R1896	1-249-389-11	CARBON 4.7	5% 1/4W F
R1826	1-216-685-11	METAL CHIP 27K	0.50% 1/10W	R1897	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R1827	1-216-685-11	METAL CHIP 27K	0.50% 1/10W	R1898	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1828	1-216-685-11	METAL CHIP 27K	0.50% 1/10W	R1899	1-216-097-00	METAL GLAZE 100K	5% 1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK
R1900	1-216-033-00	METAL GLAZE 220	5% 1/10W
R1901	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1902	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1903	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1904	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1905	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R1906	1-218-764-11	METAL CHIP 330K	0.50% 1/10W
R1908	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1909	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1910	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1911	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1912	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1913	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1914	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1915	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1916	1-216-025-00	METAL GLAZE 100	5% 1/10W
R1917	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1918	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R1919	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1920	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
R1922	1-218-758-11	METAL CHIP 180K	0.50% 1/10W
R1923	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R1925	1-216-031-00	METAL GLAZE 180	5% 1/10W
R1926	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1927	1-216-125-00	METAL GLAZE 1.5M	5% 1/10W
R1928	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1929	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R1931	1-216-689-11	METAL CHIP 39K	0.50% 1/10W
R1935	1-218-766-11	METAL CHIP 390K	0.50% 1/10W
R1937	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1938	1-216-679-11	METAL CHIP 15K	0.50% 1/10W
R1940	1-216-677-11	METAL CHIP 12K	0.50% 1/10W
R1941	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1942	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1944	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1947	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1948	1-216-095-00	METAL GLAZE 82K	5% 1/10W
R1949	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R1950	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R1951	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1952	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1954	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1955	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1956	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R1957	1-216-693-11	METAL CHIP 56K	0.50% 1/10W
R1958	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
R1959	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R1960	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1961	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1962	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1963	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1964	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R1965	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1966	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1967	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
R1970	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R1981	1-216-473-11	METAL OXIDE 56	5% 3W F
R1982	1-216-473-11	METAL OXIDE 56	5% 3W F
R1985	1-216-025-00	METAL GLAZE 100	5% 1/10W
<THERMISTOR>			
TH1501	1-800-193-00	THERMISTOR	
TH1801	8-719-991-33	DIODE 1SS133T-77	
<CRYSTAL>			
X1701	1-579-917-11	VIBRATOR, CRYSTAL	

REF. NO.	PART NO.	DESCRIPTION	REMARK
*****			
* A-1646-135-A HA BOARD, COMPLETE			
*****			
<CAPACITOR>			
C3033	1-101-005-00	CERAMIC 0.022MF	50V
C3034	1-101-005-00	CERAMIC 0.022MF	50V
C3035	1-126-967-11	ELECT 47MF	20% 16V
<CONNECTOR>			
CN3001	* 1-564-526-11	PLUG, CONNECTOR 11P	
CN3005	* 1-564-519-11	PLUG, CONNECTOR 4P	
<JACK>			
J3001	1-764-073-11	TERMINAL BLOCK, S 4P	
J3002	1-691-293-11	JACK	
<COIL>			
L3001	1-408-421-00	INDUCTOR 100UH	
L3002	1-408-421-00	INDUCTOR 100UH	
<RESISTOR>			
R3007	1-249-425-11	CARBON 4.7K	5% 1/4W
R3008	1-249-422-11	CARBON 2.7K	5% 1/4W
R3009	1-249-419-11	CARBON 1.5K	5% 1/4W
R3010	1-249-417-11	CARBON 1K	5% 1/4W
R3011	1-249-415-11	CARBON 680	5% 1/4W
R3012	1-249-419-11	CARBON 1.5K	5% 1/4W
R3013	1-249-419-11	CARBON 1.5K	5% 1/4W
R3036	1-249-409-11	CARBON 220	5% 1/4W
R3037	1-249-409-11	CARBON 220	5% 1/4W
R3038	1-249-409-11	CARBON 220	5% 1/4W
R3039	1-249-409-11	CARBON 220	5% 1/4W
<SWITCH>			
S3009	1-571-731-11	SWITCH, TACTIL	
S3010	1-571-731-11	SWITCH, TACTIL	
S3011	1-571-731-11	SWITCH, TACTIL	
S3012	1-571-731-11	SWITCH, TACTIL	
S3013	1-571-731-11	SWITCH, TACTIL	
*****			
* A-1646-136-A HB BOARD, COMPLETE			
*****			
4-033-777-01 HOLDER, LED			
<CAPACITOR>			
C3012	1-126-157-11	ELECT 10MF	20% 16V
<CONNECTOR>			
CN3002	* 1-564-523-11	PLUG, CONNECTOR 8P	
<DIODE>			
D3002	8-719-812-41	DIODE TLR124	
D3003	8-719-812-41	DIODE TLR124	
D3004	8-719-812-41	DIODE TLR124	

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**HB** **HC** **U**

REF. NO.	PART NO.	DESCRIPTION	REMARK			
<IC>						
IC3001	8-741-780-51	IC SBX1780-51				
<RESISTOR>						
R3001	1-249-413-11	CARBON	470	5%	1/4W	
R3002	1-249-425-11	CARBON	4.7K	5%	1/4W	
R3003	1-249-422-11	CARBON	2.7K	5%	1/4W	
R3004	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3005	1-249-417-11	CARBON	1K	5%	1/4W	
R3006	1-249-415-11	CARBON	680	5%	1/4W	
<SWITCH>						
S3004	1-571-731-11	SWITCH, TACTIL				
S3005	1-571-731-11	SWITCH, TACTIL				
S3006	1-571-731-11	SWITCH, TACTIL				
S3007	1-571-731-11	SWITCH, TACTIL				
S3008	1-571-731-11	SWITCH, TACTIL				
*****						
* A-1646-137-A		HC BOARD, COMPLETE	*****			
<CONNECTOR>						
CN3061	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				
CN3062	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P				
<SWITCH>						
S3061	Δ 1-692-293-11	SWITCH, PUSH (AC POWER)(1 KEY)				
*****						
* A-1647-004-A		U BOARD, COMPLETE	*****			
<CAPACITOR>						
C2001	1-126-935-11	ELECT	470MF	20%	16V	
C2002	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C2007	1-126-967-11	ELECT	47MF	20%	16V	
C2008	1-126-965-11	ELECT	22MF	20%	50V	
C2009	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C2010	1-126-960-11	ELECT	1MF	20%	50V	
C2011	1-126-960-11	ELECT	1MF	20%	50V	
C2012	1-126-933-11	ELECT	100MF	20%	16V	
C2013	1-126-933-11	ELECT	100MF	20%	16V	
C2014	1-101-004-00	CERAMIC	0.01MF		50V	
C2015	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C2016	1-126-967-11	ELECT	47MF	20%	16V	
C2019	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C2020	1-126-967-11	ELECT	47MF	20%	16V	
C2021	1-126-965-11	ELECT	22MF	20%	50V	
C2022	1-126-960-11	ELECT	1MF	20%	50V	
C2023	1-101-004-00	CERAMIC	0.01MF		50V	
C2027	1-126-960-11	ELECT	1MF	20%	50V	
C2029	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C2030	1-126-965-11	ELECT	22MF	20%	50V	
C2031	1-126-967-11	ELECT	47MF	20%	16V	
C2032	1-101-004-00	CERAMIC	0.01MF		50V	
C2033	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C2034	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C2036	1-126-967-11	ELECT	47MF	20%	16V	

REF. NO.	PART NO.	DESCRIPTION	REMARK		
C2041	1-126-965-11	ELECT 22MF	20%	50V	
C2042	1-126-967-11	ELECT 47MF	20%	16V	
C2044	1-164-005-11	CERAMIC CHIP 0.47MF		25V	
C2045	1-164-005-11	CERAMIC CHIP 0.47MF		25V	
C2048	1-126-960-11	ELECT 1MF	20%	50V	
C2049	1-164-005-11	CERAMIC CHIP 0.47MF		25V	
C2051	1-126-960-11	ELECT 1MF	20%	50V	
C2062	1-126-933-11	ELECT 100MF	20%	16V	
C2067	1-101-004-00	CERAMIC 0.01MF		50V	
C2070	1-126-933-11	ELECT 100MF	20%	16V	
C2071	1-126-960-11	ELECT 1MF	20%	50V	
C2073	1-126-960-11	ELECT 1MF	20%	50V	
C2074	1-126-935-11	ELECT 470MF	20%	16V	
C2075	1-126-960-11	ELECT 1MF	20%	50V	
C2076	1-126-935-11	ELECT 470MF	20%	16V	
C2077	1-126-967-11	ELECT 47MF	20%	16V	
C2078	1-163-031-11	CERAMIC CHIP 0.01MF		50V	
C2079	1-126-960-11	ELECT 1MF	20%	50V	
C2081	1-126-967-11	ELECT 47MF	20%	16V	
C2082	1-126-967-11	ELECT 47MF	20%	16V	
C2083	1-163-031-11	CERAMIC CHIP 0.01MF		50V	
C2084	1-126-960-11	ELECT 1MF	20%	50V	
C2085	1-126-933-11	ELECT 100MF	20%	16V	
C2086	1-126-967-11	ELECT 47MF	20%	16V	
C2100	1-126-959-11	ELECT 0.47MF	20%	50V	
C2102	1-126-959-11	ELECT 0.47MF	20%	50V	
<CONNECTOR>					
CN2001	* 1-566-641-11	CONNECTOR, HINGE (TAB) 18P			
CN2002	* 1-566-641-11	CONNECTOR, HINGE (TAB) 18P			
CN2003	* 1-564-526-11	PLUG, CONNECTOR 11P			
CN2004	* 1-564-519-11	PLUG, CONNECTOR 4P			
CN2008	* 1-564-519-11	PLUG, CONNECTOR 4P			
<DIODE>					
D2001	8-719-110-12	DIODE RD9.1ESB1			
D2002	8-719-110-12	DIODE RD9.1ESB1			
D2003	8-719-110-12	DIODE RD9.1ESB1			
D2004	8-719-110-12	DIODE RD9.1ESB1			
D2005	8-719-110-12	DIODE RD9.1ESB1			
D2006	8-719-110-12	DIODE RD9.1ESB1			
D2007	8-719-110-12	DIODE RD9.1ESB1			
D2008	8-719-110-12	DIODE RD9.1ESB1			
D2009	8-719-110-12	DIODE RD9.1ESB1			
D2010	8-719-110-12	DIODE RD9.1ESB1			
D2011	8-719-110-12	DIODE RD9.1ESB1			
D2012	8-719-110-12	DIODE RD9.1ESB1			
D2013	8-719-110-12	DIODE RD9.1ESB1			
D2014	8-719-110-12	DIODE RD9.1ESB1			
D2015	8-719-110-12	DIODE RD9.1ESB1			
D2016	8-719-110-12	DIODE RD9.1ESB1			
D2017	8-719-110-12	DIODE RD9.1ESB1			
D2018	8-719-110-12	DIODE RD9.1ESB1			
D2019	8-719-110-12	DIODE RD9.1ESB1			
D2020	8-719-110-12	DIODE RD9.1ESB1			
D2021	8-719-110-12	DIODE RD9.1ESB1			
D2022	8-719-110-12	DIODE RD9.1ESB1			
D2023	8-719-110-12	DIODE RD9.1ESB1			
D2024	8-719-800-76	DIODE 1SS226			
D2027	8-719-110-12	DIODE RD9.1ESB1			
D2028	8-719-110-12	DIODE RD9.1ESB1			
D2030	8-719-110-12	DIODE RD9.1ESB1			
D2031	8-719-110-12	DIODE RD9.1ESB1			
D2032	8-719-110-12	DIODE RD9.1ESB1			
D2033	8-719-110-12	DIODE RD9.1ESB1			
D2034	8-719-110-12	DIODE RD9.1ESB1			
D2035	8-719-110-12	DIODE RD9.1ESB1			



REF. NO.	PART NO.	DESCRIPTION	REMARK
D2036	8-719-403-00	DIODE MA3240-TX	
D2037	8-719-403-00	DIODE MA3240-TX	
D2038	8-719-110-12	DIODE RD9.1ESB1	
D2039	8-719-110-12	DIODE RD9.1ESB1	
<IC>			
IC2001	8-752-068-46	IC CXA1855S	
<JACK>			
J2001	1-573-967-12	BLOCK, (S) TERMINAL	
J2002	1-573-968-11	BLOCK, (S) TERMINAL	
J2003	1-565-838-11	JACK BLOCK, PIN 2P	
<CHIP CONDUCTOR>			
JR001	1-216-295-91	CONDUCTOR, CHIP	
JR002	1-216-295-91	CONDUCTOR, CHIP	
<COIL>			
L2001	1-412-537-31	INDUCTOR 100UH	
<TRANSISTOR>			
Q2006	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2007	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2009	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2011	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2014	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2016	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2022	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2027	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2028	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2029	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2030	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2031	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2032	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2033	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2034	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2035	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2036	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2038	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2039	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q2040	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
Q2041	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q2043	8-729-230-49	TRANSISTOR 2SC2712-YG-TE85L	
<RESISTOR>			
R2001	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2002	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2003	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2004	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2005	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2006	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2007	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R2009	1-247-807-31	CARBON 100	5% 1/4W
R2010	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2012	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2013	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2014	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2015	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R2016	1-216-295-91	CONDUCTOR, CHIP	
R2019	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2020	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2023	1-216-049-91	METAL GLAZE 1K	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R2024	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2025	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2028	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R2029	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R2030	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R2032	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2033	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2035	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2036	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2037	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2038	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R2039	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R2041	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2044	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2045	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2046	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R2047	1-216-033-00	METAL GLAZE 220	5% 1/10W
R2049	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R2050	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R2051	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2052	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2053	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2056	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2057	1-216-033-00	METAL GLAZE 220	5% 1/10W
R2058	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2060	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R2061	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R2064	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2066	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2073	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2074	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R2078	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R2079	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R2080	1-216-069-00	METAL GLAZE 6.8K	5% 1/10W
R2083	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R2087	1-216-101-00	METAL GLAZE 150K	5% 1/10W
R2088	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R2089	1-216-051-00	METAL GLAZE 1.2K	5% 1/10W
R2090	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2092	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2096	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2097	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R2104	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R2114	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W
R2116	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2119	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2122	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2123	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2125	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2126	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2127	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2128	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2129	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2130	1-216-021-00	METAL GLAZE 68	5% 1/10W
R2131	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2132	1-216-021-00	METAL GLAZE 68	5% 1/10W
R2133	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2134	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2135	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2136	1-216-033-00	METAL GLAZE 220	5% 1/10W
R2137	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2138	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2139	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2140	1-216-174-00	METAL GLAZE 100	5% 1/8W
R2141	1-216-184-00	METAL GLAZE 270	5% 1/8W
R2142	1-216-033-00	METAL GLAZE 220	5% 1/10W
R2143	1-216-021-00	METAL GLAZE 68	5% 1/10W
R2144	1-216-113-00	METAL GLAZE 470K	5% 1/10W

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 shading and mark  $\Delta$  are critical  
 for safety.  
 Replace only with part number  
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**U**

REF. NO.	PART NO.	DESCRIPTION	REMARK
R2145	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2146	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2147	1-216-176-11	METAL GLAZE 120	5% 1/8W
R2148	1-216-295-91	CONDUCTOR, CHIP	
R2149	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2150	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2151	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2152	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R2153	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2154	1-216-041-00	METAL GLAZE 470	5% 1/10W
R2155	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R2156	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2157	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2158	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2159	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2162	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R2164	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R2165	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R2166	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2167	1-216-041-00	METAL GLAZE 470	5% 1/10W
R2173	1-216-023-00	METAL GLAZE 82	5% 1/10W
R2179	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R2180	1-216-022-00	METAL GLAZE 75	5% 1/10W
R2181	1-216-041-00	METAL GLAZE 470	5% 1/10W
R2189	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2190	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2195	1-216-113-00	METAL GLAZE 470K	5% 1/10W
R2196	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2218	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2219	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2220	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2221	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2222	1-216-022-00	METAL GLAZE 75	5% 1/10W
<SWITCH>			
S2001	1-572-084-11	SWITCH, SLIDE	
<TERMINAL BOARD>			
TB2001	1-537-712-11	TERMINAL, PUSH	
*****			
MISCELLANEOUS			
*****			
$\Delta$ 1-223-925-11 RESISTOR ASSY (HIGH-VOLTAGE)			
1-251-249-11 DISTRIBUTOR, RF			
$\Delta$ 1-452-790-11 NECK ASSY			
$\Delta$ 1-452-790-21 NECK ASSY			
1-505-703-11 SPEAKER (5CM)			

REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-505-704-11	SPEAKER (16CM)	
	* 1-555-400-00	CABLE, PIN	
	1-569-008-11	ADAPTOR, CONVERSION 2P (KP-E61MH11(ME)/KP-E61MN11)	
	$\Delta$ 1-574-358-11	CORD, POWER (WITH CONNECTOR) 7.5A/250V (KP-E61SN11)	
	$\Delta$ 1-690-270-21	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KP-E61MH11(ME)/KP-E61MN11)	
	$\Delta$ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (KP-E61MH11(HK))	
	1-900-902-58	CONNECTOR ASSY (KP-E61MH11(ME)/KP-E61MN11/KP-E61SN11)	
	1-900-902-67	CONNECTOR ASSY (KP-E61MH11(ME)/KP-E61MN11/KP-E61SN11)	
	1-900-902-68	CONNECTOR ASSY (KP-E61MH11(ME)/KP-E61MN11/KP-E61SN11)	
	1-900-902-69	CONNECTOR ASSY (KP-E61MH11(ME)/KP-E61MN11/KP-E61SN11)	
	$\Delta$ 8-451-463-12	DEFLECTION YOKE Y829PA2N (R) (G)	
	$\Delta$ 8-451-463-22	DEFLECTION YOKE Y829PA2N2 (B)	
	$\Delta$ 8-598-955-11	BLOCK ASSY, HIGH-VOLTAGE	
	$\Delta$ 8-733-507-05	PICTURE TUBE 07MAC4(B)	
	$\Delta$ 8-733-508-05	PICTURE TUBE 07MAC4(R)	
	$\Delta$ 8-733-509-05	PICTURE TUBE 07MAC2 (G)	
*****			
ACCESSORIES AND PACKING MATERIALS			
*****			
	1-569-008-11	ADAPTOR, CONVERSION 2P (KP-E61MH11(ME)/KP-E61MN11)	
	3-858-447-11	MANUAL, INSTRUCTION	
	* 4-030-895-01	JOINT	
	* 4-055-673-01	SHEET, PROTECTION	
	4-058-951-01	CUSHION (UPPER) (ASSY) (KP-E61MH11(HK))	
	4-058-952-01	CUSHION (LOWER) (ASSY) (KP-E61MH11(HK))	
	4-058-953-01	CUSHION (LEFT UPPER) (KP-E61MH11(HK))	
	4-058-954-01	CUSHION (RIGHT UPPER) (KP-E61MH11(HK))	
	4-058-955-01	CUSHION (LEFT LOWER) (KP-E61MH11(HK))	
	4-058-956-01	CUSHION (RIGHT LOWER) (KP-E61MH11(HK))	
	4-058-957-01	INDIVIDUAL CARTON (KP-E61MH11(HK))	
	4-058-958-01	TRAY (KP-E61MH11(HK))	
	4-058-959-01	BOARD, TOP (KP-E61MH11(HK))	
	4-058-960-01	BOARD, BOTTOM (KP-E61MH11(HK))	
	* 4-059-461-01	BAG, PROTECTION	
*****			
REMOTE COMMANDER			
*****			
	1-473-841-11	REMOTE COMMANDER (RM-901)	
	9-905-614-01	POCKET, COVER (FOR RM-901)	

**KP-E61MH11/E61MN11/E61SN11**

RM-901

RM-901

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**Sony Corporation**  
Display Company  
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